



Product Catalog 2013

Fire Alarm Systems

1	General Hints	3-6
	Introduction	3
	General Information	4-6
2	Control Panels	8-66
	Conventional ES Line	8-9
	Intelligent Addressable IQ8Control	10-35
	Intelligent Addressable FlexES Control	36-61
	Extinguishing System	62-66
3	Power Supplies	68-71
	Power Supply Units	68
	Voltage Converters	69
	Batteries (Rechargeable)	70
	Accessories	71
4	Displays and Operating Units	74-85
	LED Indicator Panel	74
	LCD Indicator Panel	75-77
	System 3000	78-84
	Accessories	85
5	Data Transmission	88-94
	Analog Transmission Devices	88
	ISDN Dialing Devices	89-90
	Accessories	91-92
	Alarm Receiver	93-94
6	Network	96-103
	essernet	96-101
	Multiprotocol Gateway	102-103
7	Management Systems	106-134
	FlexES Guard	106-120
	WINMAGplus	121-132
	WINMAGLite	133
	Difference between WINMAGLite and WINMAGplus	134
8	Automatic Detectors	136-179
	Detector Series 9000 (Conventional)	136-138
	Series IQ8Quad (Intelligent Addressable)	139-154
	Intrinsically Safe	155-160
	Detector Base Series 9x00	161
	Base Series IQ8Quad	162
	Accessories	163-179

Contents

9	Manual Call Points	182-207
	Large Design (ABS)	182-185
	Large Design (Aluminum)	186-189
	Accessories for Large Design	190-194
	Small Design (ABS)	195-204
	Special Design	205-207
10	Transponders	210-222
	esserbus	210-222
11	Wireless Components	224-236
	Wireless Modules	224-236
12	Detectors for Special Applications	238-278
	Flame and Heat Detector	238-242
	Air Duct Detectors	243-245
	Linear Heat Detectors	246-247
	Linear Smoke Detectors	248-253
	Aspirating Smoke Detectors	254-277
	Accessories	278
13	Alarm Devices	280-307
	IQ8Alarm Addressable	280-290
	Conventional	291-304
	Remote Indicators	305-307
14	Door Release System	310-322
	Connection Examples	310-311
	Triggering Devices	312-313
	Door Holding Devices	314-322
15	Installation & Service	324-336
	Installation Accessories	324-330
	Housings	331-335
	Services	336
16	Appendix	338-359
	Planning Guide	338
	Order Forms	339-343
	Terms and Conditions	358-359

Introduction Dear business partner,

You have in front of you the ESSER fire alarm systems catalog 2013. As usual, new products are clearly marked in our wide-ranging portfolio. One such noteworthy item to draw your attention to is the new ES Line fire alarm control panel – for the top-quality protection of smaller sized projects such as kindergartens, medical practices etc. Apart from this, there's the new FlexES Guard management system; it stands out by meeting all requirements for a modern risk management system with its data collection interfaces, options for data processing, automated processes and information distribution to various output channels. Both innovations met with great interest by the professionals at Security 2012. This meant we could once again substantiate our reputation as a reliable partner for system integrators and planners in the building safety field.

Anyone who feels responsible for the safety of people and property must also always be interested in the best technical, state of the art solutions. Innovation, expertise and customer focus are our guidelines which we consistently implement in the development of our products, taking your wishes into account. We have numerous notable references from around the world testifying to our high level of customer satisfaction. The success of these extraordinary projects is closely linked with you. With this in mind, use this opportunity once again to tell us about your suggestions and requests?

Our extensive range of products in the fields of fire detection technology, voice alarms and risk management allows you to realize a tailored and reliable overall concept for almost any project, without neglecting aspects of aesthetic design. Please bear in mind that it is always worth considering both fire detection technology and voice alarms together and in context.

We are looking forward to continuing our successful collaboration with you.

Your ESSER team



Abbreviations

The list below provides a brief explanation of various abbreviations used in this product guide.

ABIGA	= integrated operating unit for alarm systems	I/O	= input / output
Acc.	= according to	IP	= ingress protection rating
Approx.	= approximately	IR	= infrared
ATEX	= EU directive for explosive atmosphere	LAN	= local area network
BOSEC	= Belgian institute for the approval of fire alarm-related products	LCD	= liquid crystal display
BTS	= base transceiver station	LED	= light emitting diode
CNBOP	= Polish research and development center for fire protection	LF	= low frequency
DIBt	= German institut for technical approvals	LKM	= air duct detector
DIL	= dual in line	LPCB	= Loss Prevention Certification Board
DIN	= German institut for standardization	LRS	= high sensitivity aspiration detector
DIP	= dual in parallel	MCP	= manual call point
ECP	= extinguishing control panel	MFAB	= master box
EDP	= ESSER data protocol	MM	= micromodule
EMV	= electromagnetic compatibility	NC	= normally closed
EN	= European Norm	NO	= normally opened
EOL	= end of line	OTG	= optical, heat and gas
ESPA	= enhanced signaling protocol for alarm processes	PCB	= printed circuit board
Ex	= explosion proof (intrinsically safe)	pcs.	= pieces
FACP	= fire alarm control panel	PL	= powered loop
FAS	= fire alarm system	PLC	= programmable logic control
FB	= fire brigade	PM	= delay and verify functions
FBF	= fire brigade panel	PTB	= national institute of natural and engineering sciences
FBOIU	= fire brigade operating and indicating unit	PU	= packaging unit
FCT	= fire control transponder (input/output module)	ROR	= rate-of-rise heat detector
FD	= fire detection	SEI	= serial essernet interface
FDS	= fire detection system	SHV	= smoke heat ventilation module
FIBS	= fire brigade operating system	SMD	= surface mounted technology
FO	= fiber optic	SL	= silent
FSA	= door release system	SOC	= switch-on control
GI	= galvanic isolated	SZI	= single zone indicator
HMI	= human machine interface	TAL	= technical alarm module
HU	= used for 19" rack, 1 HU = 44.45 mm	TM	= coincidence detection
		USB	= universal serial bus
		UV	= ultra-violet
		VDE	= association for electrical, electronic and information technologies
		VdS	= association of German property insurance companies
		VGA	= video graphics array
		VPP	= voltage peak-peak

Notice regarding the packing unit:



1. The item will only be sold in a packing unit.
2. The number of items, which have to be ordered, always refers to the number of packing units rather than the number of single items.
3. The price stated in the catalog is always the respective price for the packing unit. It is not the price for the single item.

Example item number 701040 (spare glass pane):

Packing unit: 10 items. An order of 3 items, for instance, would be equivalent to an order of 3 packing units.

This would correspond to 30 items of a spare glass pane, which have been ordered.

What happens if the phase-out date of a product is reached?

1. We guarantee to supply you for up to five years with all related components that are available and the legal regulations permit this.
2. Manufacturing-stop date is five years after the phase-out date. No matter whether we are able to manufacture the items, we will stop manufacturing them.
3. After stopping delivery, as far as it is possible for us, we will try to repair the product for another two years.
4. As long as stock is available, the products can be ordered further with the same part number, as far as this is legally permissible.
5. As soon as the products are no longer available in our main-warehouse, we supply you with products from our service and repair warehouse. These products are marked by a "K" number. In this case it can be a repaired product, however as good as new. Also here we must consider the actual legal regulations.

Symbols used



= List of contents which the part number includes



= Packing unit



= Information, important notice
such as special versions, dependencies etc.



= Available starting on

IP type of protection

The type of protection indicates the suitability of electric operating materials (for example, devices, lights and installation material) against solid foreign objects and for various ambient conditions.

Levels of protection from contact and foreign bodies (first digit)

Digit	Protection from contact	Protection from foreign bodies
0	No protection	No protection
1	Protection from large-sized body parts (diameter 50 mm)	Large foreign bodies (diameter from 50 mm)
2	Finger protection (diameter 12 mm)	Medium-size foreign bodies (diameter from 12.5 mm)
3	Tools and wires (diameter from 2.5 mm)	Small foreign matter (diameter from 2.5 mm)
4	Tools and wires (diameter from 1 mm)	Granular foreign matter (diameter from 1 mm)
5 (K)	Wire protection (as IP 4) dust-protected	Dust accumulation
6 (K)	Wire protection (as IP 4) dust-proof	No ingress of dust

Levels of protection from water (second digit)

Digit	Protection from water
0	No protection
1	Protection from vertically dripping water
2	Protection from diagonally (15°) falling drip water
3	Protection from falling spray water up to 60°, against the vertical
4	Protection against splashing water
5	Protection from hose water (nozzle) from any angle
6	Protection from strong hose water (flooding)
7	Protection from temporary submersion
8	Protection from permanent submersion

Example:

IP64: Completely dust-proof - protected against splashing water - nearly leak-proof.



Control Panels

Conventional ES Line	8-9
Intelligent Addressable IQ8Control	10-35
Intelligent Addressable FlexES Control	36-61
Extinguishing System	62-66



Features

- 8 sensor groups with up to 30 sensors in each sensor group
- Large LCD display with 8 rows x 40 characters
- Integrated sensor group single display
- Optimized commissioning, maintenance and operation
- Simple configuration and programming on the keypad
- Four relays, freely programmable, non-monitored, potential free, max. 30 V DC / 2 A or 60 V DC / 1 A
- 2 outputs for connecting acoustic or optical sounders according to EN 54-13 (29 V DC/ max. 500 mA)
- 1 interface to a transmission unit for fire warnings (12 V DC / max. 200 mA)
- 1 interface to a transmission unit for fault warnings (12 V DC / max. 200 mA)
- 1 standard interface extinguisher for fire control system type C according to DIN EN 54-2
- RS485 for connecting to fire brigade operating panel and fire brigade display panel
- 1 output UBext 29 V / 0.5A, for power supply of external bus users
- 72 h emergency current bridge
- "Delay of relaying" function (PM operating mode according to DIN VDE 0833-2 for preventing false alarms, delay / verify)
- "2-detection dependency" function (TM operating mode according to DIN VDE 0833-2 for preventing false alarms), alternatively programmable as intermediate alarm storage or 2-zone dependency between the detector zones
- Alarm counter for up to 10,000 trips
- Event memory for up to 10,000 events

Approval: G 212165

The ES Line is a compact but high-performance and professional fire alarm control panel for monitoring small facilities. It supports up to 8 conventional groups and has integrated detector group displays. It is programmed and operated easily via the large display. The sophisticated configuration concept is self-explanatory and enables fast commissioning without programming with a PC. Thus, the ES Line ensures high flexibility in the assignment of numerous input/output and control functions.

The ES Line is approved according to the relevant DIN EN 54 part 2, 4, 13 and VdS standards. The integrated RS485 interface allows the control of peripheral fire brigade equipment (FBF, FAT).

Ideal for facilities like kindergartens, law firms, service providers, catering firms, handicraft firms, medical practices, pharmacies or retail shops.

To meet the standard requirements of monitoring the detector group inputs, the EOL-I terminal element (Part No. 808626) must be, for connected alarm sensors the EOL-O (Part No. 808624).

Technical Data

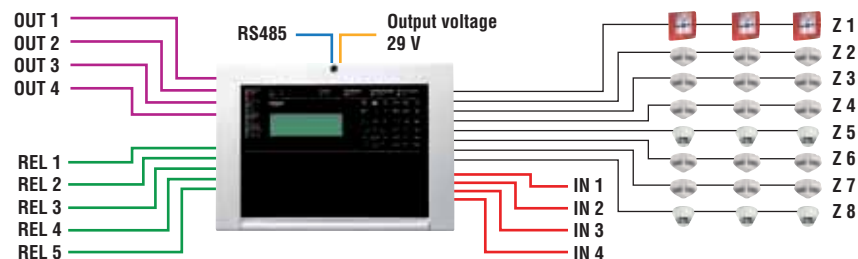
Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.8 A
Battery capacity	max. 2 x 12 Ah
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-5 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10 % glass fiber reinforced, V-0
Color	gray, similar to Pantone 538
Weight	approx. 5 kg (without batteries)
Dimensions	W: 450 mm H: 320 mm D: 185 mm



Central control unit, complete with system software including installation material, installation, commissioning and operating manuals, operating book for BMA, but without batteries.

Accessories

804900	Conventional MCP electronic module
804901	Conventional MCP electronic module with 2nd microswitch
804970	Conventional MCP compact, small, with glass pane, red
804950	Conventional MCP electronic module
804951	Conventional MCP electronic module, with 2nd micro-switch
704477.10	MCP electronic module series 9000 with second micro-switch
761162	Fixed heat detector
761262	Rate-of-rise heat detector
761362	Optical smoke detector
803271	Rate-of-rise heat detector IQ8Quad w/o loop isolator
803371	Optical smoke detector IQ8Quad w/o loop isolator
803374	O ² T multisensor fire detector IQ8Quad w/o loop isolator
FX808382	Fire brigade operating panel serial FBF 2003-EDP protocol RS 485, German
FX808380	Fire brigade indicating panel FAT 3000-EDP protocol, German
FX808383	Fire brigade operating panel serial FBF 2003-EDP protocol RS 232, German
785078	Key box adapter SDA 3000
FX808460	Touchscreen operating unit, surface mount
FX808461.10	Touchscreen operating unit, cavity wall mount



Connection example

809041.01

**FACP ES Line for 8 zones, German****NEW**

With 8 detector zones, foil: German.



809041.02

**FACP ES Line for 8 zones, English****NEW**

With 8 detector zones, foil: English.

809041.03

**FACP ES Line for 8 zones, Italian****NEW**

With 8 detector zones, foil: Italian.

809041.08

**FACP ES Line for 8 zones, Dutch****NEW**

With 8 detector zones, foil: Dutch.

FACP IQ8Control C/Intelligent Addressable

Features

- Max. two micromodules
- Max. two esserbus analog loop modules
- Short circuit and open circuit resistant loop operation
- Loop installation with I-Y(ST)Y 0.8 mm cable for a maximum length of 3.5 km
- Up to 127 esserbus devices (fire detectors and/or manual call points)/detector zones per loop
- Up to 32 esserbus transponders per loop/operation of wireless components (see chapter 10)
- Operation types TM and PM as per DIN VDE 0833 - 2 to avoid unwanted alarms being triggered
- Fire brigade operating panel and alarm transmission unit interface on the peripheral module
- Three common relays, freely programmable, monitored, floating for up to 24 V DC/1A (on the peripheral module)
- TTY or RS 485, RS 232 interface
- Integration in the short circuit and open circuit resistant essernet network with up to 31 fire detection panels depends on transmission rate
- Connection to graphical supervisor FlexES Guard/WINMAG via serial essernet interface (SEI)
- Operating panel with alphanumeric display
- 2 x 20 backlit LCD display
- Event memory for up to 10,000 events
- All System 8000 micromodules are compatible
- Printer interface for internal printer
- Two batteries with monitoring circuit
- Monitored input for external power supply unit

Additional features for powered loop

- Max. 2 analog powered loop modules
- BUS powered, synchronously controlled, acoustic alarm signaling devices as per DIN EN 54-3 with alarm tone as per DIN 33404
- Up to 48 powered loop base sounders (series 9200) per loop
- Up to 32 powered loop IQ8Alarm per loop
- Up to 48 IQ8Quad with alarm device per loop

Approval: VdS, CNBOP, BOSEC

VdS system authorization: S 294050

The IQ8Control C is an efficient fire alarm control panel for the property supervision of small to mid-sized objects facilitates simultaneous detection, control and alarm signaling both on the analog ring as well as on the spur.

Within the multi-functional IQ8Control C panel, the operation type (powered-loop or non-powered-loop) can be selected via a jumper located on the control panel power supply unit. Depending on which loop operation type has been selected, the corresponding loop module/modules are required.

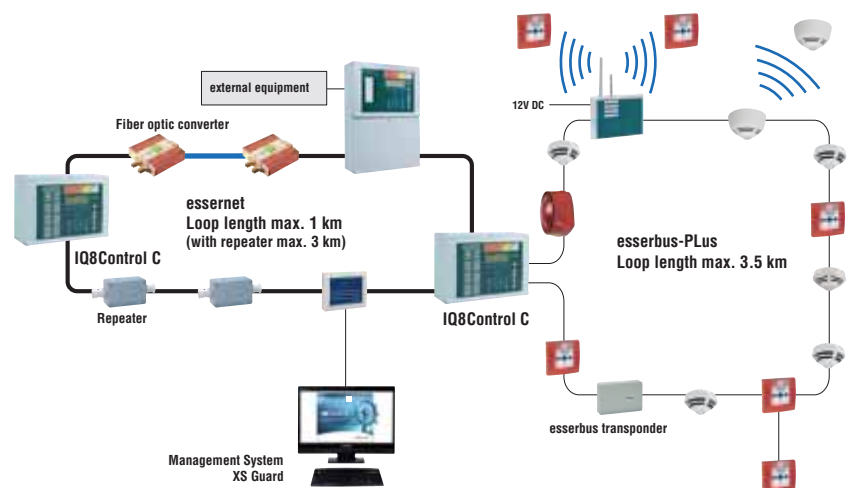
Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.35 A (standard); 0.7 A (powered loop)
Quiescent current	approx. 215 mA (basic configuration without operating unit) approx. 230 mA (basic configuration with operating unit)
Current consumption for ext. devices	2 A
Battery capacity	2 x 12 Ah, 2 x 24 Ah in extension housing
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-5 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10 % glass fiber reinforced, V - 0
Color	gray similar to Pantone 538
Weight	approx. 6.5 kg
Dimensions	W: 450 mm H: 320 mm D: 185 mm
CE certificate	0786-CPD-20827



- The IQ8Control fire detection panels are fully compatible with FACP 8000 panels within essernet applications
- FACP 8000 micromodules are also compatible with IQ8Control devices
- Housing form and color comply with the FACP 8000 generation
- The IQ8Control panels can only be programmed with the tools 8000 software solution (Part No. 789861) and the field bus interface (Part No. 789862.10) or directly via USB with the RS-232 interface (Part No. 769828), with the field bus interface or the RS232 interface.

Combined with Part No. 808619.10 FSA transponder, the control panel can be used to control automatic door arrester systems in compliance with the German Institute for Construction Engineering (DIBt: Deutsches Institut für Bautechnik).



Connection example

Order Diagram FACP IQ8Control C/Intelligent Addressable

1.
Choice of the
housing type

2.
Choice of the
control panel
modules
(only 1 module at a time)

3.
Choice of the
micromodules

4.
Choice of the
operating front
language codes available:

01 Germany
02 England
03 Italy
04 Portugal
05 Poland
06 Spain
07 Austria
08 Netherlands
09 Czech Republic
10 Russia
11 Hungary
12 Denmark
13 Sweden
14 Croatia
15 France
16 Slovakia
17 Switzerland / French
18 Romania
19 Slovenia
20 Turkey
21 Greece
22 Belgium / Flemish
23 Belgium / Walloon
25 Arabic / English
27 Serbian
52 Chinese
53 Chinese function

5.
Choice of an
extension housing
(optional)



IQ8Control C standard housing 808003



IQ8Control C for 19" cabinet 808139

Slot for one micromodule as standard



772478
Extension module with
one additional micromodule slot



772479
Peripheral module



772477
Peripheral module with
one additional micromodule slot



804382.D0
Analog loop module powered loop



784382.D0
Analog loop module



784385
Master box interface
module



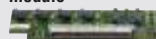
784840.10
essernet module 62.5kBd



787531
3-relay module



784842
RS 232/TTY
serial interface module



787530
4-relay module



784841.10
essernet module 500kBd



787532
3-relay
common fault module



7860 __
Operating front



7861 __
Operating front w.
SZI f. 64 detector
zones



7868 __
Operating front with
printer,
w/o take-up reel*



7863 __
Operating front for
printer,
w. take-up reel**



786000
SZI front for 192
detector zones



786100
Filler panel front,
neutral for
IQ8Control C/M



7864 __
Operating front with
1/4 VGA display



7865 __
Operating front w.
1/4 VGA display &
SZI for 64 zones



7869 __
Operating front w. 1/4 VGA
display, printer, w/o take-up reel



788093
19" rack mounting kit for
SZI 192 detector zones

All operating fronts, except SZI 192 detector zones are suitable for both housing types

*Space for only 1 battery **Requires an additional extension housing



789300
Battery extension housing



789302
Extension housing for SZI
192 detector zones



789301
Extension housing for batteries and
SZI 192 detector zones

Please notice the control panel packages available!

FACP IQ8Control C Standard and for 19" Racks

808003

**FACP IQ8Control C**

Basic design.



The operating front must be ordered separately and is not included in the price.



Housing with standard rear panel and front frame for operating panel fronts, interface board, power supply module, system software.

808139

**FACP IQ8Control C for 19" cabinet**

Same as 808003, but 19" version (7 HU) for upright cabinet installation.



The operating front must be ordered separately and is not included in the price.



FACP 808003 IQ8Control C, including 19" installation frame and flat cable for 19" installation.

Accessories for FACP IQ8Control C

789300



Battery extension housing



Extension housing for additional batteries.

Technical Data

Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP 30
Housing	ABS, 10% glass fiber reinforced, V - 0
Weight	approx. 5 kg (without battery)
Dimensions	W: 450 mm H: 320 mm D: 185 mm



Batteries are not included and must be ordered separately.



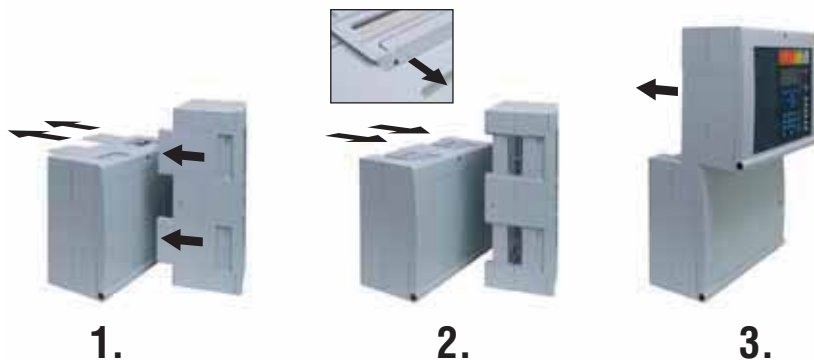
Housing complete with battery rear panel, connecting cable for battery, mounting positions for two 12 V/24 Ah batteries. Neutral front and material for attaching to the existing panel housing, battery connecting cables, 800 mm.

Assembling the housing parts

Take off the
4 standard covers.

Insert the
2 connecting elements.

Put the 2 housings
on top of each other
and push them together.



Connection between the central housing and the extension housing

789301



Extension housing for batteries with 192 detector zones



Technical Data

Quiescent current	approx. 5 mA
Current consumption	1.5 mA when LED activated
Ambient temperature	-5 °C ... 45 °C
Type of protection	IP 30
Housing	ABS, 10% glass fiber reinforced, V - 0
Color	gray similar to Pantone 538
Weight	approx. 5.5 kg (without battery)
Dimensions	W: 450 mm H: 320 mm D: 185 mm



This housing cannot be used if an operating module front with single zone indicator unit for 64 zones is already fitted. Batteries are not included and must be ordered separately. A single zone indicator unit can only be used in connection with an operating module front.



Housing complete with battery rear panel, connecting cable for batteries, mounting positions for two 12 V/24 Ah batteries, single zone indicator front for 192 detector zones and material for attaching to the existing panel housing.

789302

**Extension housing for SZI 192 detector zones IQ8Control**

The housing can be used to mount additional modules, e.g. an esserbus transponder.

Technical Data

Quiescent current	approx. 5 mA
Current consumption	1.5 mA when LED activated
Ambient temperature	-5 °C ... 45 °C
Type of protection	IP 30
Housing	ABS, 10% glass fiber reinforced, V - 0
Color	gray similar to Pantone 538
Weight	approx. 5 kg
Dimensions	W: 450 mm H: 320 mm D: 185 mm



This housing cannot be used if an operating module front with single zone indicator unit for 64 zones is already fitted. A SZI unit can only be used in combination with an operating module front.



Housing complete with standard rear panel, single zone indicator front for 192 detector zones and material for attaching to the existing panel housing.

FACP IQ8Control C Packages

808020

**FACP IQ8Control C package with 2 slots for micromodules**

The operating front must be ordered separately.



1 x Control panel 808003
1 x Extension module 772478

808133

**FACP IQ8Control C package 1**

With one micromodule slot and peripheral module for, VdS and fire brigade option.



Space for up to 2 x 12V/12Ah batteries (Part No. 018011).
The operating front must be ordered separately and is not included in the price.



1 x Control panel in housing without front 808003
1 x Operating panel front 7860xx
1 x Peripheral module 772479

808134

**FACP IQ8Control C package 2**

With one micromodule slot, 64 single zone indicator units, VdS and fire brigade option.



Space for up to 2 x 12V/12Ah batteries (Part No. 018011).
The operating front must be ordered separately and is not included in the price.



1 x Control panel in housing without front 808003
1 x Operating panel front 7861xx
1 x Peripheral module 772479

808135

**FACP IQ8Control C package 3**

With second micromodule slot, VdS and fire brigade option.



Space for up to 2 x 12V/12Ah batteries (Part No. 018011).
The operating front must be ordered separately and is not included in the price.



1 x Control panel in housing without front 808003
1 x Operating panel front 7860xx
1 x Peripheral module 772477

808136

**FACP IQ8Control C package 4**

With second micromodule slot, 64 single zone indicator units, VdS and fire brigade option.



Space for up to 2 x 12V/12Ah batteries (Part No. 018011).
The operating front must be ordered separately and is not included in the price.



1 x Control panel in housing without front 808003
1 x Operating panel front 7861xx
1 x Peripheral module 772477

808137

**FACP IQ8Control C package 5**

With second micromodule slot, integrated printer, VdS and fire brigade option.



Space for up to 1 x 12 V/12 Ah battery (Part No. 018011).
The operating front must be ordered separately and is not included in the price.



1 x Control panel in housing without front 808003
1 x Operating panel front 7868xx
1 x Peripheral module 772477

FACP IQ8Control C for Switzerland

808138

**FACP IQ8Control C package, German for Switzerland**

1 x Control panel in housing without front 808003
1 x Operating panel front CH/DE 786261
1 x Peripheral module 772477
1 x essernet module 500 kBd 784841.10

FACP IQ8Control M/Intelligent Addressable

Features

- Max. five micromodules, with peripheral module Part No. 772477
- Max. seven esserbus analog loops, with extension module Part No. 772476
- Short circuit and open circuit tolerant loop operation
- Loop installation with I-Y(ST)Y 0.8 mm cable for a maximum length of 3.5 km
- Up to 127 esserbus devices (fire detectors and/or manual call points)/detector zones per loop
- Up to 32 esserbus transponders per loop/operation of wireless components (see chapter 10)
- Operation types TM and PM as per DIN VDE 0833 - 2 to avoid unwanted alarms being triggered
- Fire brigade operating panel and transmission interface on the peripheral module
- Three common relays, freely programmable, monitored, floating for up to 30 V DC/1A (on the peripheral module)
- TTY or RS 485 or RS 232 interface
- Integration in the short circuit and open circuit resistant essernet network with up to 31 fire detection panels depends on transmission rate
- Connection to graphical supervisor WINMAG via serial essernet interface (SEI)
- Operating panel with alphanumerical display
- 2 x 20 backlit LCD display
- Event memory for up to 10,000 events
- All Systems 8000 micromodules are compatible
- Printer interface for internal printer
- Two batteries with monitoring circuit
- Monitored input for external power supply unit

Additional features for powered loop

- Max. 6 analog powered loops and expandable up to 124 power loops
- BUS supplied, synchronously controlled, acoustic alarm signaling devices as per DIN EN 54 - 3 with alarm tone as per DIN 33404
- Up to 48 powered loop base sounders (series 9200) per loop
- Up to 32 powered loop IQ8Alarm per loop
- Up to 48 IQ8Quad with alarm device per loop

Approval: VdS, CNBOP, BOSEC

VdS system authorization: S 294050

The IQ8Control M as an efficient fire alarm control panel (FACP) for the property supervision of mid-sized to large objects, facilitates simultaneous detection, control and alarm signaling both on the analog ring as well as on the spur.

The loop operation type of the panel (powered-loop or non-powered-loop) can be selected via a jumper located on the power supply card.

Depending on which loop operation type has been selected, the corresponding analog module/modules should be used.

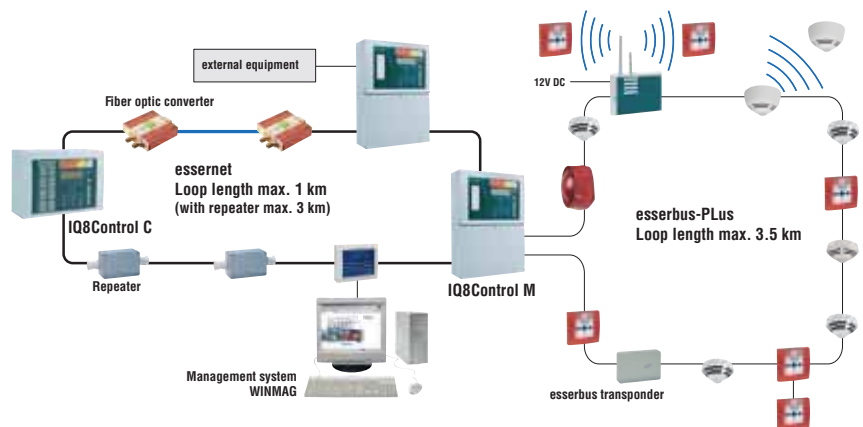
Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.35 A (standard); 0.7 A (powered loop)
Output voltage	12 V DC
Quiescent current	approx. 215 mA (basic configuration without operating unit) approx. 230 mA (basic configuration with operating unit)
Current consumption for ext. devices	2 A
Battery capacity	max. 2 x 12 V/24 Ah
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10 % glass fiber reinforced, V - 0
Color	gray similar to Pantone 538
Weight	approx. 11.5 kg
Dimensions	W: 450 mm H: 640 mm D: 185 mm
CE certificate	0786-CPD-20827



- The IQ8Control fire detection panels are fully compatible with FACP 8000 panels within essernet applications
- FACP 8000 micromodules are also compatible with IQ8Control devices
- Housing form and color comply with the FACP 8000 generation
- The IQ8Control panels can only be programmed with the tools 8000 software solution (Part No. 789861) and the field bus interface (Part No. 789862.10) or directly via USB with the RS-232 interface (Part No. 769828), with the field bus interface or the RS232 interface.

Combined with 808619.10 FSA transponders, the control panel can be used to control automatic door arrester systems in compliance with the German Institute for Construction Engineering (DIBt: Deutsches Institut für Bautechnik).



Application example

Order Diagram FACP IQ8Control M/Intelligent Addressable

1.
Choice of the
housing type

2.
Choice of the
control panel
modules
2 Extension modules
or
1 Extension module
+
1 Peripheral module

3.
Choice of the
micromodules

4.
Choice
of the
operating front

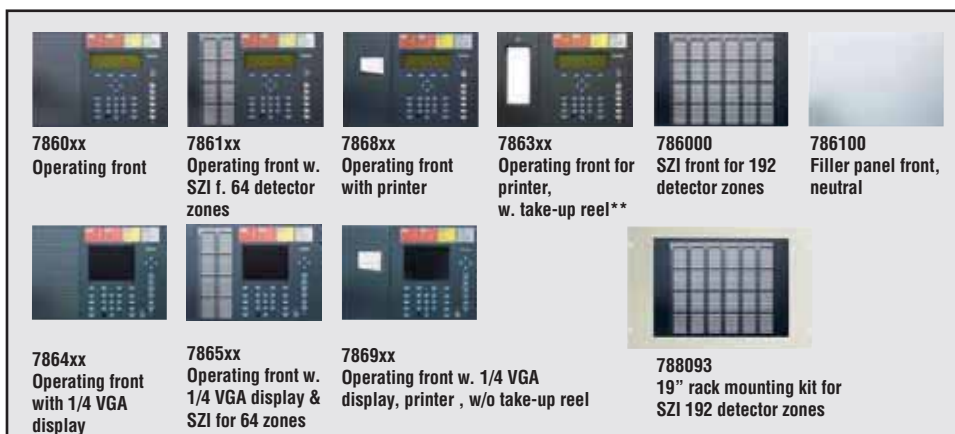
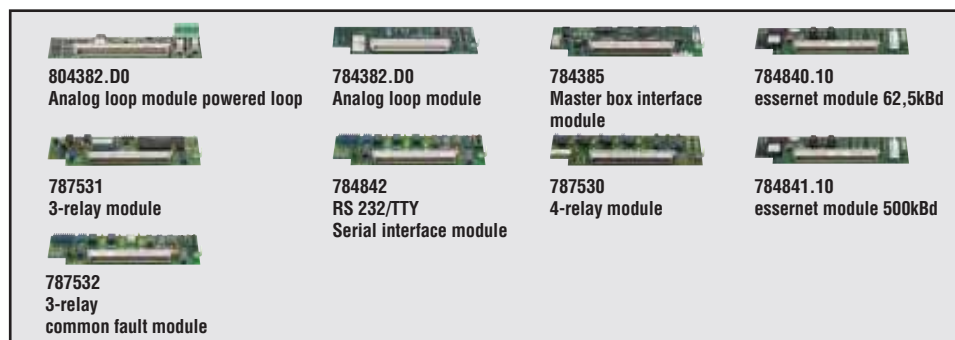
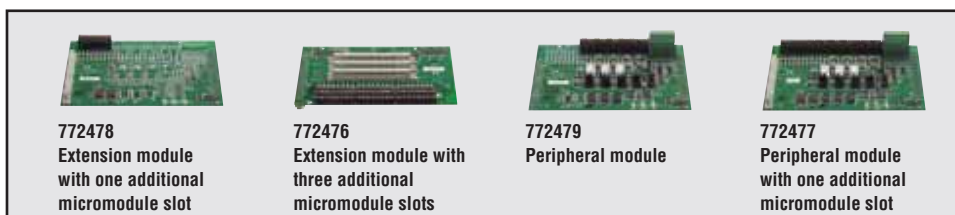
language codes available:

01 Germany
02 England
03 Italy
04 Portugal
05 Poland
06 Spain
07 Austria
08 Netherlands
09 Czech Republic
10 Russia
11 Hungary
12 Denmark
13 Sweden
14 Croatia
15 France
16 Slovakia
17 Switzerland / French
18 Romania
19 Slovenia
20 Turkey
21 Greece
22 Belgium / Flemish
23 Belgium / Walloon
25 Arabic / English
27 Serbian
52 Chinese
53 Chinese function

5.
Choice of an
extension housing
(optional)



Slot for one micromodule as standard



All operating fronts, except SZI 192 detector zones are suitable for both housing types

*Requires an additional extension housing



Please note the control panel packages available!

FACP IQ8Control M Standard and for 19" Racks

808004



FACP IQ8Control M



Basic design.



The operating front must be ordered separately and is not included in the price.



Housing with rear panel and front frame for operating panel fronts, interface board, power supply module and system software.

808219



FACP IQ8Control M for 19" cabinet



As 808004 but 19" version (7 HU) for upright cabinet installation.



The operating front must be ordered separately and is not included in the price.



FACP IQ8Control M 808004, including 19" mounting frame and flat cable for 19" installation.

FACP IQ8Control M Packages

808214



FACP IQ8Control M package 1



With 4 micromodule slots.



Space for up to 2 x 12V/24Ah batteries (Part No. 018006).
The operating front must be ordered separately and is not included in the price.



1 x Control panel 808004
1 x Operating panel front 7860xx
1 x Neutral front 786100
1 x Extension module 772476

808215



FACP IQ8Control M package 2



With 4 micromodule slots and 64 single zone indicator units.



Space for up to 2 x 12V/24Ah batteries (Part No. 018006).
The operating front must be ordered separately and is not included in the price.



1 x Control panel 808004
1 x Operating panel front 7860xx
1 x Neutral front 786100
1 x Extension module 772476

808216



FACP IQ8Control M package 3



With 4 micromodule slots and integrated printer without paper take-up reel.



Space for up to 2 x 12 V/24 Ah batteries (Part No. 018006).
The operating front must be ordered separately and is not included in the price.



1 x Control panel 808004
1 x Operating panel front 7860xx
1 x Neutral front 786100
1 x Extension module 772476

808217

**FACP IQ8Control M package 4**

With 4 micromodule slots and 192 single zone indicator units.

Space for up to 2 x 12 V/24 Ah batteries (Part No. 018006).
The operating front must be ordered separately and is not included in the price.

1 x Control panel 808004
1 x Operating panel front 7860xx
1 x SZI for 192 detector zones 786000
1 x Extension module 772476

808218

**FACP IQ8Control M package black box**

With 4 micromodule slots without operating front.

Space for up to 2 x 12 V/24 Ah batteries (Part No. 018006).
The operating front must be ordered separately and is not included in the price.

1 x Control panel 808004
1 x Neutral front 786100
1 x Extension module 772476
1 x Essernet micromodule: 62.5 kBd 784840.10 or 500 kBd 784841.10 (Option)

789304

**Extension housing for package Part No. 808218****Technical Data**

Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP 30
Housing	ABS plastic, 10% glass fiber reinforced, V - 0
Color	gray similar to Pantone 538
Weight	approx. 6 kg
Dimensions	W: 450 mm H: 320 mm D: 185 mm

The operating front must be ordered separately and is not included in the price. The extension housing must always be mounted on top of the double housing of the IQ8Control M (Part No. 808218). For expanding the IQ8Control M fire alarm panel by an integrated printer with paper take-up reel, the extension housing (Part No. 789304) must be mounted above the fire alarm panel.

1 x Operating panel front 7863xx
1 x Printer
1 x Paper take-up reel

808030

**FACP IQ8Control M package with 4 slots for micromodules**

The operating front must be ordered separately and is not included in the price.

1 x Control panel 808004
1 x Extension module 772476

808031

**FACP IQ8Control M package with 7 slots for micromodules**

The operating front must be ordered separately and is not included in the price.

1 x Control panel 808004
2 x Extension modules 772476

FACP IQ8Control M for Switzerland

808220

**FACP IQ8Control M for 19" cabinet, German for Switzerland**



- 1 x Control panel in housing without front 808219
- 1 x Operating panel front CH/DE 786261
- 1 x Peripheral module 772477
- 1 x Extension module 772476

808221

**FACP IQ8Control M, German for Switzerland**



- 1 x Control panel in housing without front 808004
- 1 x Operating panel front CH/DE 786261
- 1 x Peripheral module 772477
- 1 x Extension module 772476

FACP IQ8Control M for France

808296

**FACP IQ8Control M (w/o UGA), French**



808295

**FACP IQ8Control M for 19" cabinet (w/o UGA), French**



808297

**FACP IQ8Control M (1 UGA function), French**



808298



FACP IQ8Control M for 19" cabinet (1 UGA function), French



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IQ8Control C/M

Operating Fronts for IQ8Control C/M

Features

- alphanumerical display
- 2 x 20 backlit LCD display



ESSER - front (Part No. 786001, 786101, 786301, 786401, 786501, 786801 and 786901) is also available with the respective country specification - except the special versions. When ordering, please fill in the last two digits with the specific language code.
(Not all variants are available in all languages. Please contact your sales representative for details)

Example:

The German version of the standard operating front C/M would have the Part No. 7860-01.
For the Dutch version, the number would have to be changed to Part No. 7860-08.

Specific language code:

01 German (Germany)	02 English
03 Italian	04 Portuguese
05 Polish	06 Spanish
07 German (Austria)	08 Dutch
09 Czech	10 Russian
11 Hungarian	12 Danish
13 Swedish	14 Croatian
15 French (France)	16 Slovakian
17 French (Switzerland)	18 Romanian
19 Slovenian	20 Turkish
21 Greek	22 Flemish (Belgium/Dutch)
23 Walloon (Belgium/French)	25 Arabic/English
27 Serbian	52 Chinese
53 Chinese with country functionality	

786001



Operating front, German

**Technical Data**

Quiescent current

approx. 45 mA

786101



Operating front with single zone indication 64, English

**Technical Data**

Quiescent current

approx. 50 mA

Current consumption

single zone indication: per activated LED 1.5 mA

786801



Operating front with printer, w/o take-up reel, German

**Technical Data**

Quiescent current	approx. 45 mA
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Available until Q4/2013

786301



Operating front for printer with take-up reel, German

**Technical Data**

Quiescent current	approx. 45 mA
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This operating front can only be used on IQ8Control M and a separate extension housing (Part No. 789304) must be ordered separately.

The printer kit with paper take-up reel (Part No. 784892) must be ordered separately.

Available until Q4/2013

786401



Operating front with 1/4 VGA display, German



Two-line additional text can be programmed using the programming software package.

Technical Data

Quiescent current	approx. 170 mA
Resolution	320 x 240 pixels

Remote diagnosis is not possible if a two-line extra text is programmed.

786501



Operating front with 1/4 VGA display and SZI 64, German



Two-line additional text can be programmed using the programming software package.

Technical Data

Quiescent current	approx. 170 mA
Current consumption	single zone indication: per activated LED 1.5mA
Resolution	320 x 240 pixels

Remote diagnosis is not possible if a two-line extra text is programmed.

786901



Operating front with 1/4 VGA display and printer, German



Two-line additional text can be programmed using the programming software package.

Technical Data

Quiescent current	approx. 170 mA
Current consumption	printer: 45mA
Resolution	320 x 240 pixels

Remote diagnosis is not possible if a two-line extra text is programmed.

Available until Q4/2013

786000



SZI front for 192 detector zones



Technical Data

Quiescent current
Current consumption

approx. 5 mA
single zone indication: per actuated LED 1.5mA



Including insertable foils with country-specific version.

786100



Filler panel front, neutral



788093



19" rack mounting kit for SZI 192 detector zones



7 HU for upright cabinet mounting.

Technical Data

Quiescent current
Current consumption

approx. 5 mA
1.5 mA per actuated LED



772445 Mounting frame

786000 SZI front for 192 detector zones, including insertable foils with country-specific version

786261



Operating front with FBOIU, German for Switzerland



With integrated Swiss fire brigade operating and indicating unit (FBOIU) - German lettering.

786262



Operating front with FBOIU, Italian for Switzerland



Same as 786261, but with Italian lettering.

786263



Operating front with FBOIU, French for Switzerland



Same as 786261, but with French lettering.

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Control Panel Modules for IQ8Control C/M

772479

**Peripheral module**

The peripheral module contains a fire brigade operating panel interface as well as an alarm transmission unit interface and three freely programmable, optionally monitored or up to 30 V DC floating common relays. The peripheral module can only be used on system terminal 1 of the control panel interface board.

Technical Data

Quiescent current approx. 15 mA



Only one (Part No. 772477/78/79) module can be plugged onto the interface board.

772477

**Peripheral module with 1 additional micromodule slot**

Same as 772479 but with one additional micromodule slot. The peripheral module can only be used on system terminal 1 of the control panel interface board.

Technical Data

Quiescent current approx. 15 mA (without micromodule)



Only one (Part No. 772477/78/79) module can be plugged onto the basic module.

772478

**Extension module with 1 additional micromodule slot**

The extension module is plugged onto the interface board of the control panel. The extension module can only be used on system terminal 1 of the control panel interface board.

Technical Data

Quiescent current approx. 5 mA (without micromodule)



Only one (Part No. 772477/78/79) module can be plugged onto the interface board.

772476

**Extension module with 3 additional micromodule slots**

The extension module is plugged onto the interface board of the control panel. This extension module can be used on plug connectors 1 and 2 of the basic control panel module.

Technical Data

Quiescent current approx. 5 mA (without micromodule)



The (Part No. 772476) extension module can only be used in the IQ8Control FACP.

Micromodules for IQ8Control C/M

784382.D0

**Analog loop module**

Single loop circuit module for up to 127 series 9200/IQ8 Quad intelligent fire detectors or bus devices, divisible into 127 zones.

Technical Data

Quiescent current approx. 25 mA

804382.D0

**Analog loop module powered loop (PL)**

Single loop circuit module for up to 127 bus devices, and esserbus-PLus (powered loop) devices according to the load factor. Series 9200/IQ8 Quad intelligent fire detectors and esserbus transponders (Part No. 80xxxx) or addressable sounders and powered loop base sounders.

Technical Data

Quiescent current approx. 25 mA



Powered loop compatible only with IQ8Control and FlexES.

784385

**Master box interface module**

Single master box interface module for activating and processing acknowledgement signals from master boxes; programmable as constant or pulsed master box activation.

Technical Data

Quiescent current approx. 15 mA

784842

**RS 232/TTY serial interface module**

Serial interface module with optional RS 232 or TTY type, for operating external devices such as external printers, printers, modems for remote diagnosis.

Technical Data

Quiescent current approx. 35 mA (RS 232)
approx. 55 mA (TTY)

784842.F0

**RS 232/TTY serial interface module, France**

The RS 232/TTY micromodule provides an RS 232 or TTY output for the connection of a printer or a link to the CMSI 8000 or SensES.

Technical Data

Quiescent current approx. 35 mA (RS 232)
approx. 55 mA (TTY)

787530

**4-relay module**

4-relay module with freely programmable output functions, each of which can operate as an NC or NO contact (not monitored) for potential-free activation.

Technical Data

Quiescent current approx. 10 mA
Contact load relay max. 30 V DC/1 A

787531

**3-relay module**

3-relay module with output functions which can be programmed either as NC or NO contacts, 3 x latching "monitored" relay outputs.

Technical Data

Quiescent current approx. 5 mA
Contact load relay max. 30 V DC/1 A

787532

**3-relay common fault module**

3-relay module with pre-set functions such as common fault, 2 x freely programmable monitored relay outputs.

Technical Data

Quiescent current	approx. 15 mA
Contact load relay	max. 30 V DC/1 A

785087

**MKS multi criteria transmitter****NEW**

The interface can be connected only to IQ8Control panels (Index G or higher) and provides 16 potential-free relay contacts.

Connected to the panel with a ribbon cable.

Technical Data

Operating voltage	12 ... 30 V DC
Quiescent current @ 12 V DC	approx. 8 mA
Alarm current @ 12 V DC	approx. 8.5 mA (+ 17.5 mA pro aktivem Relais)
Contact load relay	max. 30 V DC / 2A
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Weight	approx. 170 g
Cable length	20 m
Dimensions	W: 160 mm H: 120 mm D: 20 mm

Accessories for IQ8Control C/M

769163

**Upright cabinet IQ8Control**

With full view glass and swiveling lever lock (PHZ) for housing of the System 8000 and IQ8Control in 19" rack. Cabinet with welded 100 mm base, with drill holes for floor installation.

Removable rear and side walls, cable inlet in top with bristles and cover plate. 40 HU hinged frame for integration of operating unit and facing with dummy plates.

Technical Data

Weight
Dimensions

approx. 150 kg
W: 800 mm H: 2000 mm D: 600 mm



Upright cabinet not suitable for the releasing control equipment 788014, 788015, 788024, 788025.



Incl. 1 x 584925 door contact

769164

**Upright cabinet IQ8Control incl. mounting**

Same as 769163, but completely premounted at the factory for integrating a fire alarm control panel.

743212

**Spare keys (No. 1D009)**

To lock and unlock the HMI of fire alarm panels 2214, 3004, 3006, 3007, 3008, extinguishing panel 4908 and 8010, LCD tableau 4750 and upright cabinets (Part No. 769163 and 769164).



Two keys.

743245

**Lever lock with 2 keys (No. 801)**

To lock and unlock the HMI, housing and printer frame respectively of fire alarm panels 2001, 3002, 8007, 8008, 8000 C/M and IQ8Control C/M.



Two keys and one cylinder lock.

769914

**Spare keys (No. 801)**

For HMI, housing and printer frame respectively of fire alarm panels 2001, 3002, 8007, 8008, 8000 C/M and IQ8Control C/M.



Two keys.

743248

**Lever lock with 2 keys (No. 901)**

To lock and unlock the HMI, housing and printer frame respectively of fire alarm panels 2001, 8007, 8008, 8000 C/M, IQ8Control C/M, FlexES and extinguishing panel 8010.



Two keys and one cylinder lock.

769915

**Spare keys (No. 901)**

For HMI, housing and printer frame respectively of fire alarm panels 2001, 8007, 8008, 8000 C/M, IQ8Control C/M, FlexES and extinguishing panel 8010.



Two keys.

744030

**Dummy cover 19", 2 HU**

For covering free installation space in upright cabinets and wall cabinets, 2 HU.

**Technical Data**

Material
Color

sheet steel
gray similar to Pantone 538



One height unit (HU) covers 44.45 mm.

744027

**Dummy cover 19", 3 HU**

Same as 744030, but 3 HU.

**Technical Data**

Color

gray similar to Pantone 538

744028

**Dummy cover 19", 5 HU**

Same as 744030, but 5 HU.



744029

**Dummy cover 19", 9 HU**

Same as 744030, but 9 HU.

804880

**Kit DCF77 radio time module for IQ8Control and FlexES Control**

Used in conjunction with the Kit DCF77 allows radio reception of the DCF77 time signal (CET and CEST time). The DCF77 time signal is sent from a German central transmission point in Frankfurt/Main and Mainflingen and can be received at a distance of up to approx. 2,000 km.

By connecting the Kit DCF77 to the fire alarm system IQ8Control or FlexES Control, the system time will be automatically set to this time signal. This applies to stand-alone FACP.



Each FACP or essernet network must only be connected to a single DCF77 time master.

784892

**Printer kit with paper take-up reel for IQ8Control C/M**

40 characters, printer with fixed print head.



When the printer is installed in the FACP IQ8Control C, the battery case, including toroidal transformer, must be replaced by the mounting rack. The batteries and the toroidal transformer must be installed in an additional extension housing, either (Part No. 789300 or 789301).



Mounting frame complete with Part No. 736234 plain text thermal printer including winder and end-of-paper recognition.

Available until Q4/2013

Accessories

736235 Printer paper for printer 736233 / 736234 / 784892

736235

**Printer paper for printer 736233/736234/784892, IQ8Control C/M**

Printer paper for (Part No. 736233) printer without paper take-up reel and for (Part No. 736234) printer with take-up reel.

Technical Data

Dimensions

L: 2500 mm W: 58 mm

736264

**Printer paper for printer 736259/784882, IQ8Control C/M**

For printers (Part No. 736259/736259/784882) with paper take-up reel.

Technical Data

Dimensions

L: 2500 mm W: 60 mm

789303



Extension housing for IQ8Control



The standard extension housing can be used to mount additional modules, e.g. esserbus transponders.

Technical Data

Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP30
Housing	ABS plastic, 10% glass fiber reinforced, V - 0
Color	gray similar to Pantone 538
Weight	approx. 5 kg
Dimensions	W: 450 mm H: 320 mm D: 185 mm

Features

- For the installation of up to 6 transponders and FO converters with installation kit (Part No. 788605).



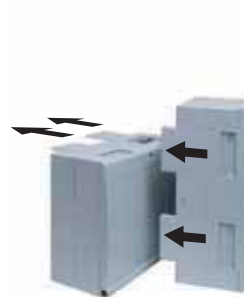
Housing complete with standard rear panel, neutral front and material for attaching to the existing control panel housing.

Assembling the housing parts

Take off the 4 standard covers.

Insert the 2 connecting elements.

Put the 2 housings on top of each other and push them together.



1.



2.



3.

Connection between the central housing and the extension housing

772445



Mounting frame 19" for IQ8Control C/M



Includes installation material



Mounting frame with 6 HU for mounting of operating front and printer.

768317

Metal housing for FACP IQ8Control M and FlexES, red



Technical Data

Type of protection	IP30
Material	metal sheet
Color	red, similar to RAL 3020 (Pantone 485)
Weight	approx. 12 kg
Dimensions	W: 455 mm H: 645 mm D: 185 mm

Maintenance and Test Equipment

789861



Programming software tools 8000



Convenient Windows programming software CD for programming the fire alarm panels belonging in series 8000 C/M, 8008, IQ8Control, FlexES Control, Gateway and extended supplementary text in 1/4 VGA display.

For programming, the (Part No. 789862.10) field bus interface is required.



System requirements:

- FACP 8000 C/M, FACP 8008, IQ8Control C/M, FlexES Control or ECP 8010 as of software version V2.20
- PC/Notebook as of Windows XP, but no Windows NT (no USB support)
- Recommended configuration: 512 MB RAM, 500 MHz CPU

This software is also used for the LCD panels 7851xx

Features

One software for all panels:

- Start-up
- Programming
- Loop diagnosis
- Maintenance software

789860.10



Starter kit equipment PPlus with programming software tools 8000



Complete package for programming the FACP 8007, 8000 C/M, 8008, Gateway, ABIGA IQ8Control and FlexES Control via PC or Notebook.



The field bus interface is used as a programming interface between the FACP and the PC/notebook.

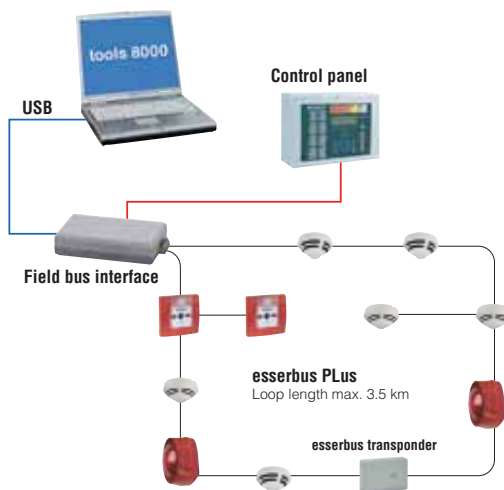
Furthermore, the field bus interface facilitates the direct connection of a ring bus to the convenient monitoring of a finished installation and the elimination of possible cabling mistakes.



- | | |
|-----------|---|
| 789861 | Programming software for System 8000 and IQ8Control |
| 789862.10 | Field bus and control panel interface PPlus |
| 789863 | USB cable |
| 789864 | Serial connecting cable |

Accessories

- | | |
|----------|--|
| BME2Z002 | Switched-mode power supply with cylindrical plug |
| 789866 | USB programming cable for extinguishing panel 8010 |



Application example

789862.10

**Field bus interface PLus**

Interface for the programming of the FACP 8007, 8000 C/M, 8008, gateway, ABIGA and IQ8Control or for the direct field-side connection of a single installed analog loop. With the optional switched-mode power supply (Part No. BME2Z002), bus-supplied alarm signaling equipment can be tested independently from the control panel via the direct connection to the field bus interface (Part No. 789862.10). (V1.12 or above of programming software tools 8000 is required)

Technical Data

Ambient temperature	5 °C ... 45 °C
Storage temperature	0 °C ... 50 °C
Type of protection	IP40
Housing	plastic, PS (Polystyrene)
Color	white, similar to RAL 9010 / gray, similar to RAL 7035
Weight	approx. 300 g
Dimensions	W: 68 mm H: 30 mm D: 135 mm



Connecting cables (Part No. 789863 and 789864) are not included in delivery.

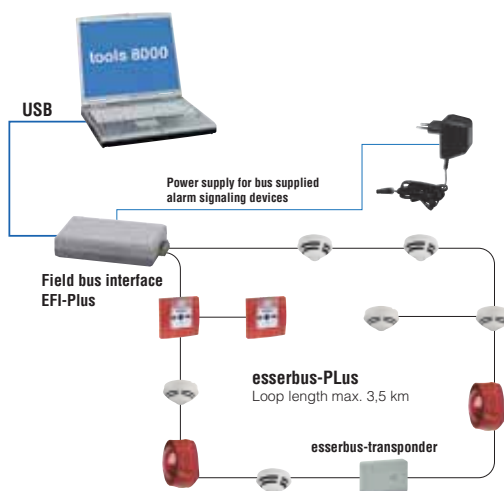
Windows NT does not support any USB interface. Therefore the use of the programming software tools 8000 is possible under Windows NT only with the usage of programming interface RS 232 (Part No. 769828).



One interface and two 6-pin plugs.

Accessories

BME2Z002 Switched-mode power supply with cylindrical plug



Application example

789863

**USB cable A/B for 789862.10 field bus and panel interface**

For connecting service PC/laptop with the tools 8000 field bus and panel interface.

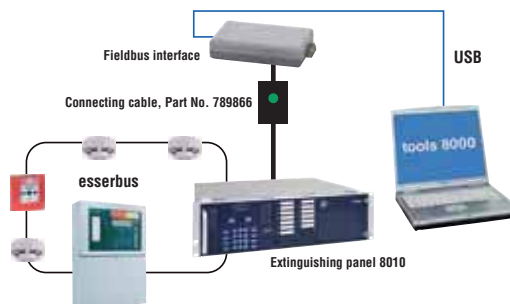
**Technical Data**

Cable length	1.8 m
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789866

**USB programming cable for ECP 8010**

Connecting lead for programming the extinguishing control panel 8010.



789864

**Serial connecting cable for 789862.10**

For connecting the field bus interface to panels 8007, 8000 C/M, 8008, Gateway, ABIGA and IQ8Control. With 4-pin special plug for the control panel.

**Technical Data**

Cable length	1.9 m
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BME2Z002

**Switched-mode power supply with cylindrical plug****Technical Data**

Output voltage	12 V DC
Output current	1 A

Ordering Form of FACP FlexES Control Standard/Intelligent Addressable

**Basic hardware configuration incl. software license**

	Hardware	Software license
FX808392	FlexES Control FX2	- 2 loops
FX808393	FlexES Control FX10	- 5 loops
FX808394	FlexES Control FX10	- 10 loops
FX808395	FlexES Control FX18	- 5 loops
FX808396	FlexES Control FX18	- 10 loops
FX808397	FlexES Control FX18	- 18 loops

Basic configuration consisting of:

- 1 x Power supply module
- 1 x PS connection module
- 1 x Rear panel
- 1 x Control module
- 1 x Housing frame
- 1 x Base module carrier

Additional Components:

- FX808328.RE Redundant control module
- FX808324 Display and operating unit
5.7" display*
- FX808325 Neutral front

- FX808322 Extension module carrier 1
with 4 module slots
- FX808323 Extension module carrier 2
with 4 module slots

- FX808331 esserbus/esserbus-PLus module
- FX808332 esserbus/esserbus-PLus module GI
- FX808340 essernet module 62.5 kBd
- FX808341 essernet module 500 kBd

FACP FlexES Control Standard/Intelligent Addressable

FlexES Control FX2

FX808392



FACP FlexES Control FX2 (2 loops)



Features

- Combinable loop/spur technology with decentralized intelligence
- Freely configurable functionality of modules
- 4 free programmable potential free contacts and 1 output for alarm transmission unit (ATU)
- Increased availability via emergency mode function of the loop modules
- Emergency mode for monitored areas up to 48,000 m² or more than 512 fire detectors acc. to the German Planning standard VDE 0833 and/or VdS 2095.
- USB, Ethernet, RS 485, TTY interfaces onboard
- Direct output of the proprietary EDP communications protocol (Data Protocol) via interface RS 485
- Operation of loop-powered alarm signaling devices (optical/acoustic/voice) in different alarm zones via esserbus-PLus
- Cascadable power supply to 450 W according to EN 54-4
- Loop length up to 3.5 km (esserbus)
- Operation of different input/output gateways
- Integrated interfaces for operation of required fire brigade periphery, e.g. fire brigade indicating panel, fire brigade operating unit
- Event memory with 10,000 entries
- Operation of VdS-approved wireless components with convenient field intensity measurement
- Parameterization, calibration and programming directly via USB
- Galvanic isolation of analog loops possible

In connection with display and operating unit (Part No. FX808324)

- Display and operating unit with 5.7" TFT display
- Capacitive keyboard for touch-sensitive operation
- Program-controlled night design with interactive keyboard menu

Additional features for powered loop

- Up to 2 analog powered loops
- BUS supplied, synchronously controlled, acoustic alarm signaling devices as per DIN EN 54 - 3 with alarm tone as per DIN 33404
- Up to 48 powered loop base sounders (series 9200) per loop
- Up to 32 powered loop IQ8Alarm per loop
- Up to 48 IQ8Quad with alarm device per loop

Approval: VdS, CNBOP, BOSEC

VdS system authorization: S 209207

Basic set for assembly of a FACP with module slots and software support of 2 modules.

Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.8 A
Output voltage	24 V DC
Quiescent current	approx. 192 mA (base model w/o display and operating unit)
	approx. 348 mA (base model with display and operating unit)
Current consumption for ext. devices	3 A
Battery capacity	2 x 12 V/12 Ah (max. 4 x 12 V/24 Ah)
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10% glass fiber reinforced, V - 0
Color	gray, similar to Pantone 538
Weight	approx. 6.5 kg
Dimensions	W: 450 mm H: 320 mm D: 185 mm
CE certificate	0786-CPD-20903



Optionally: the display and operating unit (Part No. FX808324), labeling set (Part No. FX8084xx) or the neutral front (Part No. FX808325) must be ordered separately.

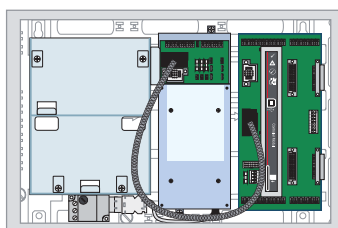
Following external printers to FlexES can be:

OKI Microline 280 Elite
Epson LQ300
Printer MEFA



Set includes 1 x power supply module, 1 x PS connection module, 1 x rear panel 1, 1 x control module, 1 x housing frame and 1 x base module carrier.

FlexES Control FX2



Please order separately:
Display and operating unit
or neutral front



Option: Extension housing including neutral front



max. 2 x 12 V/12 Ah

FX808392.F0



FACP FlexES Control FX2 (2 loops), France

Same as FX808392, but French version.



1 x HMI FX808324
1 x Labeling set FX808415

FlexES Control FX10



Features

- Combinable loop/spur technology with decentralized intelligence
- Freely configurable functionality of modules
- 4 free programmable potential free contacts and 1 output for alarm transmission unit (ATU)
- Increased availability via emergency mode function of the loop modules
- Emergency mode for monitored areas up to 48,000 m² or more than 512 fire detectors acc. to the German Planning standard VDE 0833 and/or VdS 2095.
- USB, Ethernet, RS 485, TTY interfaces onboard
- Direct output of the proprietary EDP communications protocol (Data Protocol) via interface RS 485
- Operation of loop-powered alarm signaling devices (optical/acoustic/voice) in different alarm zones via esserbus-PLus
- Cascadable power supply to 450 W according to EN 54-4
- Loop length up to 3.5 km (esserbus)
- Operation of different input/output gateways
- Integrated interfaces for operation of required fire brigade periphery, e.g. fire brigade indicating panel, fire brigade operating unit
- Event memory with 10,000 entries
- Operation of VdS-approved wireless components with convenient field intensity measurement
- Parameterization, calibration and programming directly via USB
- Galvanic isolation of analog loops possible

In connection with display and operating unit (Part No. FX808324)

- Display and operating unit with 5.7" TFT display
- Capacitive keyboard for touch-sensitive operation
- Program-controlled night design with interactive keyboard menu

Additional features for powered loop

- Up to 10 analog powered loops
- BUS supplied, synchronously controlled, acoustic alarm signaling devices as per DIN EN 54 - 3 with alarm tone as per DIN 33404
- Up to 48 powered loop base sounders (series 9200) per loop
- Up to 32 powered loop IQ8Alarm per loop
- Up to 48 IQ8Quad with alarm device per loop

Approval: VdS, CNBOP, BOSEC

VdS system authorization: S 209207

Basic set for assembly of a FACP with vertical expansion for a maximum of 10 module slots.

Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.8 A
Output voltage	24 V DC
Quiescent current	approx. 192 mA (base model w/o display and operating unit) approx. 348 mA (base model with display and operating unit)
Current consumption for ext. devices	3 A
Battery capacity	4 x 12 V / 24 Ah
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10% glass fiber reinforced, V - 0
Color	gray, similar to Pantone 538
Weight	approx. 15.1 kg (incl. neutral front) approx. 17 kg (incl. operating unit)
Dimensions	W: 450 mm H: 960 mm D: 185 mm
CE certificate	0786-CPD-20903



Expandable to a maximum of ten module slots via optional extension module carriers. Space for required batteries in one or several extension housings.

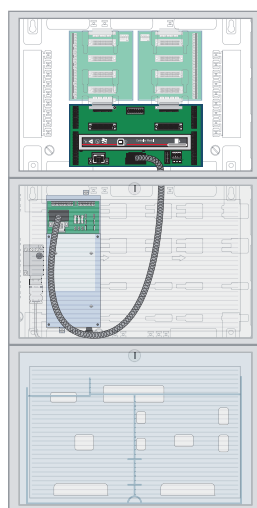
The following external printers could to FlexES can be:

- OKI Microline 280 Elite
- Epson LQ300
- Printer MEFA

Optionally: the display and operating unit (Part No. FX808324), labeling set (Part No. FX8084xx) or the neutral front (Part No. FX808325) must be ordered separately.



Set includes 1 x power supply module, 1 x PS connection module, 1 x rear panel 2, 1 x control module, 1 x housing frame and 1 x base module carrier.



FlexES Control FX10

Please order separately:
Display and operating unit
or neutral front



Extension housing
including neutral front



max. 2 x 12 V/24 Ah

FX808393



FACP FlexES Control FX10 (5 loops)

Hardware FlexES Control FX10 basic configuration, with software support for 5 loops.

FX808394

**FACP FlexES Control FX10 (10 loops)**

Hardware FlexES Control FX10 basic configuration, with software support for 10 loops.

FX808394.F0

**FACP FlexES Control FX10 (10 loops), France**

Same as FX808394, but French version.



1 x HMI FX808324
1 x Labeling set FX808415

FlexES Control FX18



Features

- Combinable loop/spur technology with decentralized intelligence
- Freely configurable functionality of modules
- 4 free programmable potential free contacts and 1 output for alarm transmission unit (ATU)
- Increased availability via emergency mode function of the loop modules
- Emergency mode for monitored areas up to 48,000 m² or more than 512 fire detectors acc. to the German Planning standard VDE 0833 and/or VdS 2095
- USB, Ethernet, RS 485, TTY interfaces onboard
- Direct output of the proprietary EDP communications protocol (Data Protocol) via interface RS 485
- Operation of loop-powered alarm signaling devices (optical/acoustic/voice) in different alarm zones via esserbus-PLus
- Cascadable power supply to 450 W according to EN 54-4
- Loop length up to 3.5 km (esserbus)
- Operation of different input/output gateways
- Integrated interfaces for operation of required fire brigade periphery, e.g. fire brigade indicating panel, fire brigade operating unit
- Event memory with 10,000 entries
- Operation of VdS-approved wireless components with convenient field intensity measurement
- Parameterization, calibration and programming directly via USB
- Galvanic isolation of analog loops possible

In connection with display and operating unit (Part No. FX808324)

- Display and operating unit with 5.7" TFT display
- Capacitive keyboard for touch-sensitive operation
- Program-controlled night design with interactive keyboard menu

Additional features for powered loop

- Up to 18 analog powered loops
- BUS supplied, synchronously controlled, acoustic alarm signaling devices as per DIN EN 54 - 3 with alarm tone as per DIN 33404
- Up to 48 powered loop base sounders (series 9200) per loop
- Up to 32 powered loop IQ8Alarm per loop
- Up to 48 IQ8Quad with alarm device per loop

Approval: VdS, CNBOP, BOSEC

VdS system authorization: S 209207

Basic set for assembly of a FACP with horizontal extension for a maximum of 18 module slots.

Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.8 A
Output voltage	24 V DC
Quiescent current	approx. 192 mA (base model w/o display and operating unit) approx. 348 mA (base model with display and operating unit)
Current consumption for ext. devices	3 A
Battery capacity	4 x 12 V / 24 Ah
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10% glass fiber reinforced, V - 0
Color	gray, similar to Pantone 538
Weight	approx. 15.1 kg (incl. neutral front) approx. 17 kg (incl. operating unit)
Dimensions	W: 450 mm H: 960 mm D: 185 mm
CE certificate	0786-CPD-20903



Expandable to a maximum of ten module slots via optional extension module carriers. Space for required batteries in one or several extension housings.

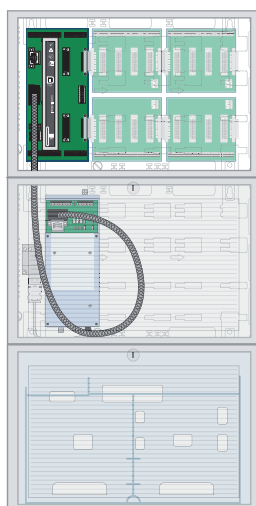
The following external printers to FlexES can be:

- OKI Microline 280 Elite
- Epson LQ300
- Printer MEFA

Optionally: the display and operating unit (Part No. FX808324), labeling set (Part No. FX8084xx) or the neutral front (Part No. FX808325) must be ordered separately.



Set includes 1 x power supply module, 1 x PS connection module, 1 x rear panel 1, 1 x control module, 1 x housing frame and 1 x base module carrier.



FlexES Control FX18

Please order separately:
Display and operating unit
or neutral front



Extension housing including neutral front



max. 2 x 12 V/24 Ah

FX808395



FACP FlexES Control FX18 (5 loops)

Hardware FlexES Control FX18 basic configuration, with software support for 5 loops.

FX808396

**FACP FlexES Control FX18 (10 loops)**

Hardware FlexES Control FX18 basic configuration, with software support for 10 loops.

FX808397

**FACP FlexES Control FX18 (18 loops)**

Hardware FlexES Control FX18 basic configuration, with software support for 18 loops.

FX808397.F0

**FACP FlexES Control FX18 (18 loops), France**

Same as FX808397, but French version.



1 x HMI FX808324
1 x Labeling set FX808415

Operating Fronts for FlexES Control

FX808324



Display and operating unit with 5.7" display



Features

- Capacitive keyboard for touch sensitive operation
- Program-controlled night design with interactive keyboard menu
- Access level via access codes
- Freely programmable function keys with operating macros for supplementary functions
- 5.7" monochrome display

Operating front including mounting frame and housing lock for display and operation of a fire alarm panel or a fire alarm system. Capacitive keys and hidden-until-lit-status indicators for intuitive operation during status changes. Operator password via access codes for all levels, with menu navigation display in different operation levels.

Technical Data

Operating voltage	24 V DC
Quiescent current	approx. 156 mA
Resolution	320 x 240 pixel
Ambient temperature	-5 °C ... 45 °C
Color	black, similar to RAL9005
Weight	approx. 1 kg
Dimensions	W: 450 mm H: 320 mm D: 30 mm



The description set must be ordered separately!



Built into front frame including housing lock, hinge unit and mounting material.

Part no.	Part designation	Part no.	Part designation
FX808401	Labeling set "Germany"	FX808414	Labeling set "Croatia"
FX808402	Labeling set "England"	FX808415	Labeling set "France"
FX808403	Labeling set "Italy"	FX808416	Labeling set "Slovakia"
FX808404	Labeling set "Portugal"	FX808417	Labeling set "Romania"
FX808405	Labeling set "Poland"	FX808418	Labeling set "Slovenia"
FX808406	Labeling set "Spain"	FX808419	Labeling set "Turkey"
FX808407	Labeling set "Austria"	FX808420	Labeling set "Greece"
FX808408	Labeling set "Netherlands"	FX808421	Labeling set "Belgium" (Flemish)
FX808409	Labeling set "Czech Republic"	FX808422	Labeling set "Belgium" (Walloon)
FX808410	Labeling set "Russia"	FX808423	Labeling set "Switzerland"
FX808411	Labeling set "Hungary"	FX808424	Labeling set "Bulgaria"
FX808412	Labeling set "Denmark"	FX808425	Labeling set "Brazil"
FX808413	Labeling set "Sweden"	FX808426	Labeling set "China (simplified)"
		FX808427	Labeling set "China (traditional)"

FX808325



Neutral front



Design front for screening of the housing opening as alternative for an operating unit.

Technical Data

Color	gray, similar to Pantone 538
Weight	approx. 0.3 kg
Dimensions	W: 450 mm H: 320 mm D: 30 mm



Built into front frame including housing lock, hinge unit and mounting material.

FX808324.ND



Display and operating unit with 5.7" display, Danish

Same as FX808324, but Danish version.

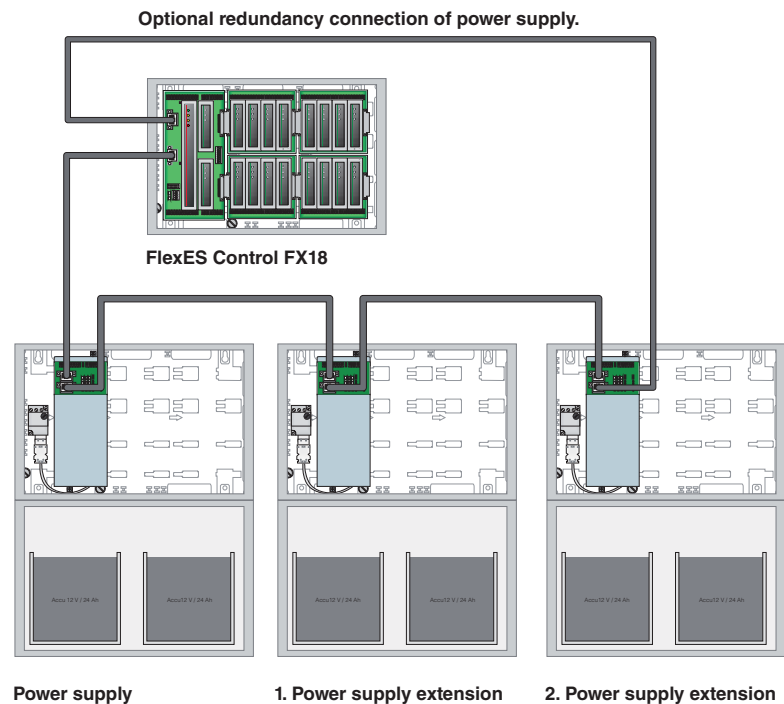


With fire brigade lock

Power Supply Extension

A maximum of 450 W is available at 24 V per panel by “cascading” the power supply modules. Each power supply can monitor and track 2 x 2 batteries 12 V/24 Ah or 12 V/12 Ah which fulfills the required emergency power buffering time. A maximum battery capacity of 24 V/48 Ah per power supply is available, which may be increased up to 144 Ah with three power supply modules. Thus, the system has sufficient energy reserves for alarm zones, fire protection equipment and indicating devices, line smoke and heat detectors as well as other detection and control equipment of the system.

Alternatively, the power supply can be installed in a redundant ring-shaped wiring. A “three-phase supply” (400 V) is also possible offering the advantage of separate phase protection for each power supply. Even in the event of a loss of one phase, two more power supplies are still available to supply the system.



FX808363

**Power supply extension 24 V/12 Ah**

Additional power supply for extension of the internal system power supply. The power supply extension supplements the existing panel power supply with an additional 150 W via a plug-in line connection. There is space for two 12 V/24 Ah batteries in the bottom of the housing. Two additional 24 Ah batteries can be connected over an extra housing (Part No. FX808313).

Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.7 A
Output voltage	24 V DC
Output current	max. 6 A (total)
Current consumption for ext. devices	3 A
Battery capacity	4 x 12 V / 12 Ah (max. 4 x 12 V/12 Ah)
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10% glass fiber reinforced, V - 0
Color	gray, similar to Pantone 538
Weight	approx. 6.2 kg
Dimensions	W: 450 mm H: 320 mm D: 185 mm

**Optional units:**

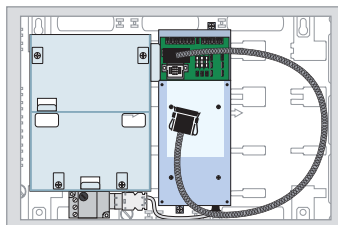
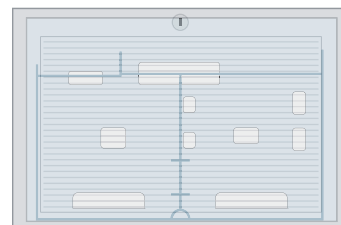
018011 battery, maximum 2 x 12 V/12 Ah (24 V/12 Ah)

(Part No. FX808314) Battery extension housing for 2 x 12 V/12 Ah

Only the same types of battery (manufacturer, date of manufacture, capacity, and charge) may be connected to the power supply module.



Set includes 1 x housing rear panel 1, 1 x housing frame, 1 x battery holder for 2 x 12 V/12 Ah (including PS connection module holder), 1 x power supply module 24 V DC/150 W, 1 x neutral front and 1 x plug-in connection cable.

Power supply extension 24 V/12 Ah**Option: Extension housing
incl. neutral front**

max. 2 x 12 V/12 Ah

FX808364

**Power supply extension 24 V/24 Ah**

Additional power supply extension for expansion of the internal system power supply. The power supply extension supplements the existing panel power supply with an additional 150 W via a plug-in line connection. There is space for two 12 V/24 Ah batteries in the bottom of the housing. Two additional 24 Ah batteries can be connected via add-on housing (Part No. FX808313). Additional components can be mounted onto top-hat rails in the power supply housing.

Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.8 A
Output voltage	24 V DC
Output current	max. 6 A
Current consumption for ext. devices	3 A
Battery capacity	4 x 12 V / 24 Ah (max. 4 x 12 V 24 Ah)
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10% glass fiber reinforced, V - 0
Color	gray, similar to Pantone 538
Weight	approx. 10.3 kg
Dimensions	W: 450 mm H: 640 mm D: 185 mm

**Optional units:**

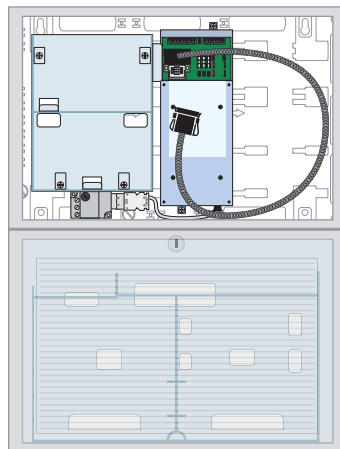
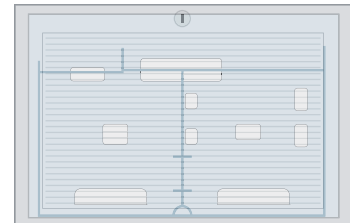
(Part No. 018006) battery, maximum 2 x 12 V/24 Ah (24 V/24 Ah)

(Part No. FX808313) battery extension housing for 2 x 12 V/24 Ah

Only the same types of battery (manufacturer, date of manufacture, capacity, and charge) may be connected to the power supply module.



Set includes 1 x housing rear panel 1, 1 x housing frame, 1 x power supply module 24 V DC/150 W, 1 x neutral front, 1 x extension housing for two batteries including neutral front and 1 x plug-in connection cable.

Power supply extension 24 V/24 Ah**Option: Extension housing incl. neutral front**

max. 2 x 12 V/24 Ah

FX808330

**3-way plug**

Connector plug for cascading of up to three power supply extensions. Up to three power supply units can be connected to one mains voltage line via this connector plug.

Technical Data

Cable length	0.6 m
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Features

- Connector with locking mechanism
- Connection lead for pluggable connection to power supply module

FX808445



Cable power supply cascading 2.5 m

FX808313



Battery extension housing for 2 x 12 V/24 Ah



Complete plastic housing for two batteries 12 V/24 Ah.

Technical Data

Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10% glass fiber reinforced, V - 0
Color	gray, similar to Pantone 538
Weight	approx. 4.5 kg
Dimensions	W: 450 mm H: 320 mm D: 185 mm



Incl. mounting material, without batteries

FX808314



Battery extension housing for 4 x 12 V/12 Ah



Same as FX808313, but for 4 x 12 V/12 Ah.

Technical Data

Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP30
Housing	ABS, 10% glass fiber reinforced, V - 0
Color	gray, similar to Pantone 538
Weight	approx. 4.5 kg
Dimensions	W: 450 mm H: 320 mm D: 185 mm



Incl. mounting material, without batteries

FX808333



Transponder mounting plate for PSU

Connect the mounting panel to the power supply module with four supplied spacers.

Options for installation of components:

- 1 x esserbus transponder e.g. 12 relay (Part No. 808610.10) or
- 1 x esserbus transponder e.g. alarm transponder (Part No. 808623) or
- 1 x Adapter ADP-N3E-U/EDP or
- 1 x Adapter ADP-N3S/EDP

Extension Modules for FlexES Control

FX808322

**Extension module carrier 1**

Module carrier in plastic mounting tray for up to four modules with plug-in terminals. The modules automatically lock when plugged in and can be exchanged without using any tool. When the extension module carrier 1 is set up horizontally, the terminals are facing downwards; when set up vertically, the terminals face to the left.

Technical Data

Weight

approx. 175 g

Dimensions

W: 170 mm H: 120 mm D: 25 mm

FX808323

**Extension module carrier 2**

Module carrier in plastic mounting tray for up to four modules with plug-in terminals. The modules automatically lock when plugged in and can be exchanged without using any tool. When the extension module carrier 2 is set up horizontally, the terminals are facing upwards; when set up vertically, the terminals face to the right.

Technical Data

Weight

approx. 175 g

Dimensions

W: 140 mm H: 120 mm D: 25 mm

FlexES Control in 19" Rack/Intelligent Addressable



The industry-typical set-up of the new cabinet construction system enables a space-saving design of the FlexES Control FACP for all conceivable applications.

However, due to the large number of possible configurations, no generally valid manufacturer conformity can be designed.

For this reason, a total of eleven different configuration options have been predefined.

These are already pre-tested and must be implemented in this form in order to ensure manufacturer conformity in accordance with construction product guidelines.

If the components are integrated into an equipment cabinet independently by an installer, this installer must declare the conformity.

For this purpose, we provide the installer with a certification form, which must be completed and returned to the operator.

To order an equipment cabinet, regardless of whether the assembly is carried out by ESSER or by the installer, the order must be placed using an appropriate form.

This is available as a download "FlexES order form" in the protected customer area of our website at www.esser-systems.com. Please understand that, in order to comply with the construction product guidelines, we can only process orders for 19" equipment cabinets, which are available from us together with the completed order form.

The following eleven configuration options can be selected using the order form described above:



The following external printers to FlexES can be:

- OKI Microline 280 Elite
- Epson LQ300
- Printer MEFA

Configuration 1	Configuration 2	Configuration 3	Configuration 4	Configuration 5	Configuration 6
Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU
Control panel drawer with operating unit SHU	Control panel drawer with operating unit SHU	Control panel drawer with operating unit SHU	Control panel drawer without operating unit SHU	Control panel drawer without operating unit SHU	Control panel drawer without operating unit SHU
Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU
Power supply drawer SHU	Power supply drawer SHU	Power supply drawer SHU	Power supply drawer SHU	Power supply drawer SHU	Power supply drawer SHU
Dummy cover SHU	Power supply drawer SHU	Power supply drawer SHU	Dummy cover SHU	Dummy cover SHU	Power supply drawer SHU
Dummy cover or service drawer 1HU	Dummy cover or service drawer 1HU	Dummy cover or service drawer 1HU	Dummy cover or service drawer 1HU	Dummy cover or service drawer 1HU	Dummy cover or service drawer 1HU
Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU
Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU
Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU
Configuration 7	Configuration 8	Configuration 9	Configuration 10	Configuration 11	
Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	Dummy cover SHU	
Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	
Control panel drawer FACP without operating unit SHU	Control panel drawer FACP without operating unit SHU	Control panel drawer FACP with operating unit SHU	Control panel drawer FACP with operating unit SHU	Control panel drawer FACP with operating unit SHU	
Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	
Control panel drawer FACP 2 without operating unit SHU	Control panel drawer FACP 2 without operating unit SHU	Control panel drawer FACP 2 with operating unit SHU	Control panel drawer FACP 2 with operating unit SHU	Control panel drawer FACP 2 with operating unit SHU	
Power supply drawer FACP 2 SHU	Power supply drawer FACP 2 SHU	Power supply drawer FACP 2 SHU	Power supply drawer FACP 2 SHU	Power supply drawer FACP 2 SHU	
Dummy cover or service drawer 1HU	Dummy cover or service drawer 1HU	Dummy cover or service drawer 1HU	Dummy cover or service drawer 1HU	Dummy cover or service drawer 1HU	
Power supply drawer FACP SHU	Power supply drawer FACP SHU	Power supply drawer FACP SHU	Power supply drawer FACP SHU	Power supply drawer FACP SHU	
Dummy cover SHU	Power supply drawer FACP SHU	Dummy cover SHU	Power supply drawer FACP SHU	Power supply drawer FACP SHU	
Dummy cover SHU	Power supply drawer FACP SHU	Dummy cover SHU	Power supply drawer FACP SHU	Power supply drawer FACP SHU	
Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	Dummy cover 2HU	

FlexES Control in 19" Rack/Intelligent Addressable

Order
Floor-type cabinet and rack-mounting
for Fire Alarm Control Panel FlexES Control

Customer Data
Property / Commission _____
Customer Number _____
Installer _____
Order Date _____
Designated delivery date _____

Terminal-Installation
Please choose a desired installation space of the terminals in the bottom of the floor-type cabinet.

Control panels
FACP 1 _____
FACP 2 _____

Floor-type cabinet
Type _____

Service-drawer

essernet terminal

Lettering set

Configuration
Please select a configuration on the following pages.
The following options are approved by the manufacturer and may not be changed. Variations in structure lead to the loss of CE approval.

Selected Configuration: _____

Installation space:

ESSER
by Honeywell

Novor GmbH a Honeywell Company
Dieselstraße 2 41469 Neuss, Germany
www.esser-systems.com info@esser-systems.com

CE 798985.20.GB0 03.2013

Choose property data and
select type of control panel

Choose type of cabinet

Order
Floor-type cabinet and rack-mounting
for Fire Alarm Control Panel FlexES Control

Configuration 7

Configuration 8

Configuration 9

Configuration 10

Configuration 11

ESSER
by Honeywell

All components are
automatically filed

Order
Floor-type cabinet and rack-mounting
for Fire Alarm Control Panel FlexES Control

Components for floor-type cabinet	Height units	Item no.
Indicating and operating panel FlexES Control with front frame	7 HU	FX808304.19
Heavy-duty drawer incl. software license for up to 10 loops	5 or 7 HU	FX808430.10R
Heavy-duty drawer incl. software license for up to 18 loops	5 or 7 HU	FX808430.18R
Heavy-duty drawer for power supply	5 or 7 HU	FX808431
Expansion module carrier 1 for ext. terminals (max. 4 per floor-type cabinet)	---	FX808432
Expansion module carrier 2 for ext. terminals (max. 4 per floor-type cabinet)	---	FX808433
Mounting kit for terminals	---	FX808434
Wiring terminal for 1 to 4 module slots	---	FX808435
Wiring terminal for essernet terminals	---	FX808436
Wiring terminal for power supply module (UL-Test. 24 V)	---	FX808437
Wiring terminal mains connection 230 V AC	---	FX808438
Service drawer	1 HU	FX808439
Dummy cover for heavy-duty drawer	5 HU	FX808440
Floor-type cabinet with installation	42 HU	769166
Floor-type cabinet without installation	42 HU	740059
Dummy cover	1 HU	740066
Dummy cover	2 HU	744030
Dummy cover	5 HU	744028
Lettering set	---	---
Modules	---	---
essernet module	---	FX808331
essernet module GT	---	FX808332
essernet module 62.5 kbit/s	---	FX808340
essernet module 500 kbit/s	---	FX808341
Control module 2 (redundancy)	---	FX808326.RE
Service	---	---
Installation with provided floor-type cabinet	---	FX808444

1 HU = 1 height unit = 44.45 mm
1 inch = 25.4 mm

Novor GmbH a Honeywell Company
Dieselstraße 2 41469 Neuss, Germany
www.esser-systems.com info@esser-systems.com

CE 798985.20.GB0 03.2013

FX808430.10R



Heavy-duty rack with software release for 10 analog loops

Heavy-duty rack on ball-bearing metal rails incl. base module carrier and control module for up to four expansion module carriers. The control module is designed for an expansion of max. 10 analog loops.



FX808430.18R



Heavy-duty rack with software release for 18 analog loops

Same as FX808430.10R, but including control module for an expansion of up to 18 analog loops.



FX808431



Heavy-duty rack for power supply, 5 HU

Heavy-duty rack on ball-bearing metal rails for power supply module and up to four batteries 12 V/24 Ah.



FX808432



Expansion module carrier 1 for shouldered connection

Module carrier in plastic mounting tray for up to four modules. The connection to the relocated shouldered plug-in terminal is made over a preconfigured cable.



 Max. two module carrier 1 can be inserted.

FX808433



Expansion module carrier 2 for shouldered connection

Module carrier in plastic mounting tray for up to four modules. The connection to the relocated shouldered plug-in terminal is made over a preconfigured cable.



 Max. two module carrier 2 can be inserted.

FX808434



Mounting rail set for connection terminals



Four cut-to-length hat rails for mounting connection terminals, transponders, fuses etc. in a 19" housing.

Technical Data

Dimensions

L: 485 mm (hat rails)



Delivery incl. mounting material to fix the mounting rails in the rack housing.

FX808435



Connection terminal for 4 module slots



Shouldered 2 m connection terminal for mounting the periphery (up to 4 modules) of an expansion module carrier.



Incl. pluggable connection line between expansion module carrier and the connection terminal

FX808436



Connection terminal for essernet modules



Shouldered 2 m connection terminal for the essernet with 62.5 kBd or 500 kBd transfer rate.



Incl. pluggable connection line between expansion module carrier and the connection terminal



FX808437



Connection terminal for UBext



For external power supply of the periphery over screw-type terminals.



Incl. pluggable connection line between mains adapter and connection terminal.

FX808438



Connection terminal for 230 V and 400 V power supply



In compliance with VDE 0100 a one- or three-phase mains connection supplies up to three power supply modules in the same housing.

FX808324.19

**Display and operating unit for equipment cabinet, 7 HU**

Operating unit front, including tilting assembly frame for display and operation of the FACP or a fire alarm system.

Capacitive keys and backlit status displays for intuitive operation in the event of a change of status.

Operating release through access codes for all levels, with menu-driven display at different operating levels.



Labeling set must be ordered separately!

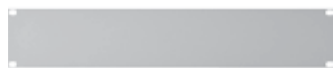
Part no.	Part designation	Part no.	Part designation
FX808401	Labeling set "Germany"	FX808414	Labeling set "Croatia"
FX808402	Labeling set "England"	FX808415	Labeling set "France"
FX808403	Labeling set "Italy"	FX808416	Labeling set "Slovakia"
FX808404	Labeling set "Portugal"	FX808417	Labeling set "Romania"
FX808405	Labeling set "Poland"	FX808418	Labeling set "Slovenia"
FX808406	Labeling set "Spain"	FX808419	Labeling set "Turkey"
FX808407	Labeling set "Austria"	FX808420	Labeling set "Greece"
FX808408	Labeling set "Netherlands"	FX808421	Labeling set "Belgium" (Flemish)
FX808409	Labeling set "Czech Republic"	FX808422	Labeling set "Belgium" (Walloon)
FX808410	Labeling set "Russia"	FX808423	Labeling set "Switzerland"
FX808411	Labeling set "Hungary"	FX808424	Labeling set "Bulgaria"
FX808412	Labeling set "Denmark"	FX808425	Labeling set "Brazil"
FX808413	Labeling set "Sweden"	FX808426	Labeling set "China (simplified)"
		FX808427	Labeling set "China (traditional)"

FX808439

**Service rack, 1 HU**

Space-saving, ball-bearing-mounted rack to house programming equipment during servicing.

744030

**Dummy cover 19", 2 HU**

For covering free installation space in upright cabinets and wall cabinets, 2 HU.

Technical Data

Material
Color

sheet steel
gray similar to Pantone 538



One height unit (HU) covers 44.45 mm.

744027

**Dummy cover 19", 3 HU**

Same as 744030, but 3 HU.

Technical Data

Color

gray similar to Pantone 538

FX808440



Dummy plate for heavy-duty rack PSU, 5 HU

Dummy plate to cover the heavy-duty rack incl. mounting material with 5 HU.



744029



Dummy cover 19", 9 HU

Same as 744030, but 9 HU.



769166



Housing 800 mm, depth 42 HU, incl. mounting



With full-view window and pivoted lever closure to house the 19" FlexES Control system – built-in version.
Cabinet frame with welded 100 mm base and drill holes for floor anchoring.
Rear panel and side panels are removable.
Cable entrance in the roof with brush strip and cover panel, and also in cabinet floor.
42 HU rigid frame to house the operating unit and facing with dummy plates.



The free-standing cabinet is set up and wired according to the chosen configuration option.
Subsequent required functional and safety testing in accordance with VDE 0100.
Assembly is included.

FX808444



Assembly with cabinet provision

Assembly of the installation components into a supplied equipment cabinet of a different make.
Complete cabling, including required functional and safety testing in accordance with VDE 0100.

FX808449



Certification set for FlexES rack



1 x Installation manual floor type and rack mounting
1 x Check list floor type and rack mounting
1 x Installation manual for components

Control Panel Modules for FlexES System

FX808331



Loop card esserbus/esserbus-PLus module



Features

- For a maximum of 127 devices (IQ8Quad intelligent fire detectors, MCPs, detector series 9200, esserbus transponder or loop-powered signaling devices)
- Loop length up to 3.5 km
- Support of wireless components
- Permanent monitoring of all active detectors, transponders and alarm signaling devices
- Monitoring of the loops for short circuit, wire break and disturbances
- Quick reactivation of the bus-powered signaling devices after short circuiting in compliance with EN 54-13
- Plastic protective housing with LED displays for fast indication of operating status
- Integrated line isolators for two-way line protection in the event of a short circuit

Module in plastic protective housing for connection of an esserbus / esserbus-PLus loop. Mixed operation of esserbus and esserbus-PLus is possible in a fire alarm panel. Up to 18 loops can be realized depending on the extension of the alarm panel and/or on the number of available module slots.

Up to four modules without galvanic isolation can be used in the fire alarm panel. If more than 4 loop modules are used in a panel, modules with galvanic isolation (GI) are necessary to be used from the fifth loop module onwards. Mixed operation of the modules with/without galvanic separation within one control panel is easily possible.

Technical Data

Operating voltage	24 V DC
Weight	approx. 110 g
Dimensions	W: 27 mm H: 93 mm D: 112 mm

FX808332



Loop card esserbus/esserbus-PLus module GI



Features

- For a maximum of 127 devices (IQ8Quad intelligent fire detectors, MCPs, detector series 9200, esserbus transponder or bus-supplied signaling devices)
- Loop length up to 3.5 km
- Support of wireless components
- Permanent monitoring of all active detectors, transponders and alarm signaling devices
- Monitoring of the loops for short circuit, wire break and disturbances
- Quick reactivation of the bus-powered signaling devices after short circuiting in compliance with EN 54-13
- Plastic protective housing with LED displays for fast indication of operating status
- Integrated line isolators for two-way line protection
- If more than 4 loop modules are used in a panel, galvanic isolation is required

Module in plastic protective housing for connection of an esserbus / esserbus-PLus loop. Mixed operation of esserbus and esserbus-PLus is possible in a fire alarm panel. Up to 18 loops can be realized depending on the extension of the alarm panel and/or on the number of available module slots.

Up to four modules without galvanic isolation can be used in the fire alarm panel. If more than 4 loop modules are used in a panel, modules with galvanic isolation (GI) are necessary to be used from the fifth loop module onwards. Mixed operation of the modules with/without galvanic separation within one control panel is easily possible.

Technical Data

Operating voltage	24 V DC
Weight	approx. 110 g
Dimensions	W: 27 mm H: 93 mm D: 112 mm

FX808340

**Network card essernet module 62.5 kBd**

Network module for up to 16 network devices. Plastic protective housing with LED displays for speedy indication of the operating status.

Topology: loop configuration, short circuit and wire break tolerant.

Technical Data

Operating voltage	24 V DC
Quiescent current	approx. 37 mA
Weight	approx. 100 g
Cable length	1000 m
Cable	telecommunications cable I Y (St) Y n x 2 x 0.8mm
Dimensions	W: 27 mm H: 93 mm D: 112 mm

FX808341

**Network card essernet module 500 kBd**

Network module for up to 31 network devices. Plastic protective housing with LED displays for quick summary of the operating status.

Topology: loop configuration, short circuit and wire break tolerance.

Technical Data

Operating voltage	24 V DC
Quiescent current	approx. 37 mA
Weight	approx. 100 g
Cable length	1000 m
Cable	IBM type 1 or similar
Dimensions	W: 27 mm H: 93 mm D: 112 mm

FX808328.RE

**Redundant control module**

Redundant control module for highest reliability of FlexES Control. Automatic switch of all functions, if the central processing unit breaks down.

Technical Data

Weight	approx. 270 g
Dimensions	W: 27 mm H: 202 mm D: 112 mm



EMC emission: Class A for individual application at redundant operation complies with EMC policy 2004/108/EG.

Remote Operating Units for FlexES System

FX808460



Touchscreen operating unit, surface mount



High-quality display and operating unit for FlexES FACP. The system operation is interoperable and intuitive with a touch-sensitive 7" colored display. Individual access levels can be activated over key code. Software addressing allows using the operating unit together with fire brigade indicating panels and fire operating units on the RS 485 BUS.

Technical Data

Operating voltage	12 ... 30 V DC
Current consumption @ 24 V DC	approx. 500 mA
Resolution	800 x 480 pixel
Cable length	700 m
Dimensions	W: 270 mm H: 221 mm D: 71 mm



The touch display and operating unit cannot be used behind the adapter module ADP-N3E-EDP. The device must be externally supplied.

FX808461.10



Touchscreen operating unit, cavity wall mount

NEW



Same as FX808460, but for cavity wall mounting.

Technical Data

Operating voltage	12 ... 30 V DC
Current consumption @ 24 V DC	approx. 500 mA
Resolution	800 x 480 pixel
Cable length	700 m
Dimensions	W: 222 mm H: 162 mm D: 5 mm (front panel)



The touch display and operating unit cannot be used behind the adapter module ADP-N3E-EDP. The device must be externally supplied.

Accessories

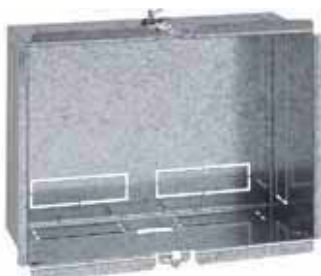
FX808462 Cavity wall mounting

FX808462



Cavity wall mounting kit for touchscreen operating unit

NEW



Galvanized sheet metal mounting frame for cavity wall or pedestal mounting to accommodate the touch control panel Part No. FX808461.10. The fixing of the mounting frame by two clamping screws. The kit cannot be used for touch panel Part No. FX808461.

Periphery for FlexES System

FX808382



Fire brigade operating panel serial FBF 2003-EDP protocol RS 485, German

**Approval: VdS**

Operating unit for fire alarm systems with transmission unit to the local fire brigade. Connection and operation are carried out via the RS 485 interface of the FlexES Control fire detection control unit. Compliant to DIN 14661: 1998-10.

Door lock:

Rim lock case, ready to house a semicylinder according to DIN 18252.

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current	approx. 15 mA
Type of protection	IP30
Housing	sheet steel
Color	gray, similar to RAL 7032
Weight	approx. 3.4 kg
Dimensions	W: 255 mm H: 185 mm D: 58 mm

FX808383



Fire brigade operating panel serial FBF 2003-EDP protocol RS 232, German

**Approval: VdS**

Operating unit for fire alarm systems with transmission unit to the local fire brigade. Connection and operation are carried out via the RS232 interface of the FAT 3000. Compliant to DIN 14661: 1998-10

Door lock:

Rim lock case, ready to house a semicylinder according to DIN 18252.

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current	approx. 15 mA
Type of protection	IP 30
Housing	sheet steel
Color	gray, similar to RAL 7032
Weight	approx. 3.4 kg
Dimensions	W: 255 mm H: 185 mm D: 58 mm

FX808380



Fire brigade indicating panel FAT 3000-EDP protocol, German

**Approval: VdS**

Microprocessor-based fire brigade indicating panel according to DIN 14675 as an additional alarm device for a FlexES fire detection panel. Serial connection to the fire alarm panel via the RS 485 interface. In addition, a serial fire brigade indicating panel can be connected via an RS 232. Conventional as well as redundant operation is possible via ADP-N3E adapters according to DIN 14675.

The collective indicators and operating keys enable the fire brigade to receive a comprehensive overview of the on-site situation. Up to 4,000 PC-programmable supplementary texts, event memory and the possibility of a short-circuit and interruption-tolerant loop installation guarantee superior safety levels. The ESPA interface facilitates a direct connection which is not galvanically separated to a telecommunication system or paging system. Compliant with DIN 14662: Z-2012.

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current	approx. 40 mA
Type of protection	IP 30
Housing	sheet steel
Color	gray, similar to RAL 7032
Weight	approx. 3.5 kg
Dimensions	W: 255 mm H: 185 mm D: 58 mm

FX808378

**Fire brigade indicating panel, Austria (FBF-A)**

- Fire brigade operating panel in compliance with ÖNORM F 3031 (2004)
- Plain text display with 2 lines and 16 characters for each line, illuminated
 - 3 signals can be collectively indicated per LED (in operation, alarm, fault / deactivation)
 - 2 optional status LED (BFS extinguishing system actuation)
 - 3 buttons for FACP feedback
 - Direct programming at the fire brigade operating panel via serial interface
 - The additional text is displayed when using the shortcut deactivation + fault.

Technical Data

Operating voltage	10.5 ... 30 V DC
Current consumption	50 mA (with lighting)
Ambient temperature	0 °C ... 50 °C
Storage temperature	-10 °C ... 60 °C
Type of protection	IP 30
Housing	sheet steel
Color	red, similar to RAL 3000
Weight	approx. 2.5 kg
Dimensions	W: 205 mm H: 300 mm D: 60 mm



This fire brigade operating unit is not compatible with the FlexES Control!

FX808381

**Adapter module ADP-N3EU-EDP**

Microprocessor-based device for installation in FlexES fire alarm panel. In compliance with DIN 14675, the TTY interface of the fire alarm panel can be used as a redundant data bus with this adapter if the fire brigade indicating panel FAT 3000 is used for the fire brigade's initial information. Supplementary texts can be programmed via PC (> 4,000 texts).

The ESPA interface facilitates a direct connection which is not galvanically isolated to a telecommunication system, paging system or nurse call system.

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current	approx. 40 mA
Contact load relay	30 V DC/ 1 A
Connection terminal	max 2 x 0.8 mm ²
Ambient temperature	0 °C ... 50 °C
Storage temperature	-10 °C ... 60 °C
Weight	approx. 100 g
Dimensions	W: 80 mm H: 150 mm D: 32 mm

Features

- Input: EDP protocol
- Output: ESPA protocol

FX808379

**Adapter module ADP-N3S-EDP**

Same as FX808381, but designed for connection of an additional FACP in an installed redundant data bus of a fire brigade indicating panel FAT 3000 to an adapter module ADP-N3EU-EDP. In contrast to ADP-N3EU-EDP, the ADP-N3S-EDP does not supply power for the redundant operation.

With a redundant FlexES Control system, the redundant remote control of the fire brigade periphery requires an ADP-N3S-EDP.

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current @ 12 V DC	approx. 60 mA
Contact load relay	30 V DC/ 1 A
Connection terminal	max 2 x 0.8 mm ²
Ambient temperature	0 °C ... 50 °C
Storage temperature	-10 °C ... 60 °C
Weight	approx. 100 g
Dimensions	W: 80 mm H: 150 mm D: 30 mm

FX808384

**Central remote indicator ZPA 3000, surface mounted, German**

Central remote indicator in aesthetic surface-mounted plastic housing as additional display for the fire alarm system. The actuation is made over a serial interface of the FACP. Plain text message over 4 lines with 20 characters each. Two messages can be displayed simultaneously. 4,000 texts (1,300 in selective mode) are programmable. If no additional texts are specified, a standard text will be generated.

One ZPA 3000 could be connected at FlexES interface RS 485; means in total two ZPA 3000 per FlexES FACP.

Optionally: up to 16 ZPA 3000 connected via adapter module ADP-N3

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current @ 12 V DC	approx. 35 mA
Alarm current @ 12 V DC	approx. 100 mA
Weight	approx. 2 kg
Cable length	700 m
Dimensions	W: 223 mm H: 273 mm D: 54 mm



Incl. programming software

FX808385

**Central remote indicator ZPA 3000, flush mounted, German**

Central remote indicator in aesthetic flush-mounted aluminum housing as additional display for the fire alarm system. The actuation is made over a serial interface of the FACP. Plain text message over 4 lines with 20 characters each. Two messages can be displayed simultaneously. 4,000 texts (1,300 in selective mode) are programmable. If no additional texts are specified, a standard text will be generated.

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current @ 12 V DC	approx. 35 mA
Alarm current @ 12 V DC	approx. 100 mA
Weight	approx. 3.5 kg
Cable length	700 m
Dimensions	W: 193 mm H: 190 mm D: 60 mm (installation) W: 230 mm H: 230 mm D: 60 mm (outside)



Incl. programming software

FX808386

**Fire information and operation system, DIN A4 format, German**

Fire information and operation system with redundant fire indicating unit. Double-wing steel plate housing for flush- and surface-mounted installation. Central door opener of the two wings. Preconfigured for half cylinder mounting. Includes the file depot for a maximum of 2x75 fire alarm layout diagrams in A4 format. Door opener via left-door half cylinder or latch, lock for right door only.

Technical Data

Operating voltage	10 ... 30 V DC
Color	red, similar to RAL 3000
Weight	approx. 23 kg
Dimensions	W: 710 mm H: 560 mm D: 100 mm



FIBS incl. FAT 3000 and FBF 3000

FX808387

**Fire information and operation system, DIN A3 format, German**

Fire information and operation system with redundant fire indicating unit. Double-wing steel plate housing for flush- and surface-mounted installation. Central door opener of the two wings. Preconfigured for half cylinder mounting. Includes the file depot for a maximum of 100 fire brigade routing cards in A3 format. Door opener via left door half cylinder or latch, lock for right door only.

Technical Data

Operating voltage	10 ... 30 V DC
Color	red, similar to RAL 3000
Weight	approx. 25 kg
Dimensions	W: 830 mm H: 560 mm D: 100 mm



FIBS incl. FAT 3000 and FBF 3000

FX808389

**Fire information and operation system, DIN A4 format, German**

Fire information and operation system with redundant fire indicating unit. Double-wing steel plate housing for flush- and surface-mounted installation. Central door opener of the two wings. Preconfigured for half cylinder mounting. Includes the file depot for a maximum of 2x75 fire brigade routing cards in A4 format. Door opener via left door half cylinder or latch, lock for right door only.

Technical Data

Operating voltage	10 ... 30 V DC
Color	sheet steel
Weight	approx. 25 kg
Dimensions	W: 710 mm H: 560 mm D: 100 mm



FIBS incl. FAT 3000 and FBF 3000

FX808391

**Fire information and operation system, DIN A3 format, German**

Fire information and operation system with redundant fire indicating unit. Double-wing steel plate housing for flush- and surface-mounted installation. Central door opener of the two wings. Preconfigured for half cylinder mounting. Includes the file depot for a maximum of 100 fire brigade routing cards in A3 format. Door opener via left door half cylinder or latch, lock for right door only.

Technical Data

Operating voltage	10 ... 30 V DC
Color	sheet steel
Weight	approx. 27 kg
Dimensions	W: 830 mm H: 560 mm D: 100 mm



FIBS incl. FAT 3000 and FBF 3000

Extinguishing Control Panels 8010 Wall Mounting



Features

- 1 Extinguishing area for max. 1,600 m² acc. to VdS
- 8 detector zones for up to 30 series 9200 and IQ8Quad automatic detectors each (for two-detector dependency up to 25 detectors)
- 1 zone for manual alarm
- 1 zone for emergency stop
- 1 zone for post flooding
- 1 zone for extinguishing system fault
- 1 zone for blocking extinguishing system
- 1 control input for buzzer OFF
- 1 control input for control panel reset
- 8 relays, monitored or floating 30V DC/2A
- 3 relays, floating 30V DC/2A
- 2 mains voltage relays, floating 230V AC/2A
- All outputs are provided with fuses

Approval: VdS

Addressable control device with integrated fire detection module for one extinguishing area (e.g. CO₂, FM 200, Hi Expansion foam, Water Mist and Inert Gas, etc.) compliant with VdS 2496 and EN 12094-1. The extinguishing panel 8010 is an electronic control device for extinguishing systems with integrated fire detection module, compatible with series 9200 and IQ8Quad detectors. It is additionally provided with respective detection zones for manual alarm, post flooding and emergency stop as well as two zones for extinguishing system fault. Complex control functions can be realized by using the 13 control groups (relays). Up to 8 extinguishing areas on the esserbus of the fire detection system communication transponders (optional). A maximum of 16 communication transponders can be networked for each FACP 8000 C/M, IQ8Control 8000, or IQ8Control via the (Part No. 808615).

Technical Data

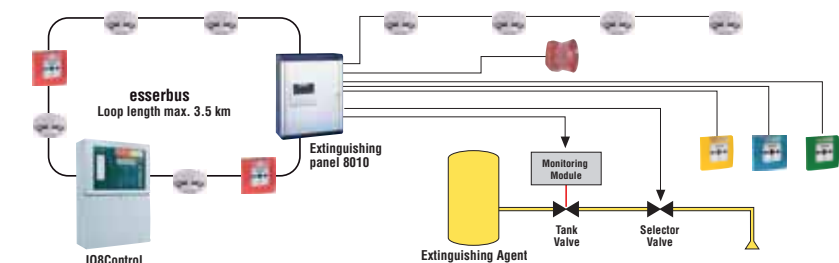
Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.7 A
Quiescent current	approx. 100 mA
Battery capacity	2 x 12 V/24 Ah
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP 30
Housing	sheet steel approx. 1.25 mm
Color	gray (similar to RAL 7035), blue (similar to RAL 5003)
Weight	approx. 18.3 kg (without battery)
Dimensions	W: 488 mm H: 625 mm D: 210 mm
CE certificate	0786-CPD-20223



The free programming software can be downloaded from our website (downloads section).

Accessories

Indicating and operating unit 7884xx (stand alone operation mode required), esserbus communication transponder 808615, control zone indicator and alarm counter 788016.



Application example

788012.40



Extinguishing panel 8010, series 4, w/o operating unit



Corresponding indication and operating panel available in different languages, which can be found in "Options for Extinguishing Control Panels 8010 Wall Mounting".

788013.40

**Extinguishing panel 8010, series 4, with operating unit, German**

Same as 788012.40, but with operating unit (Part No. 788400).

**Technical Data**

Weight approx. 0 g

788013.40.PL

**Extinguishing panel 8010, series 4, with operating unit, Polish**

788013.40.RU

**Extinguishing panel 8010 series 4, with operating unit, Russian**

Extinguishing Control Panels 8010 - for 19" Rack (3 HU)

Features

- 8 detector zones for up to 30 series 9200 or IQ8Quad automatic fire detectors per detector zone (max. 25 detectors in two-detector dependency)
- 1 detector zone manual alarm
- 1 detector zone emergency stop
- 1 detector zone post flooding
- 1 detector zone blocked extinguishing system
- 1 control input buzzer off
- 1 control input reset control panel
- 8 monitorable relays 30 V DC /2A
- 3 floating relays 30 V DC /2A
- 2 relays for mains voltage 230 V (connection at the back)
- Each output is protected by fuses
- Electronically controlled exhauster control

Operating unit:

- 13 LED-indication with inscription fields for indicating activated outputs
- Mechanical alarm counter
- LED display to indicate the detector zone status
- LED collective display
- Keypad can be intuitively handled
- Key operated switch for keypad activation
- Emergency current supply 2 batteries 12 V/12 Ah (not supplied as standard)

Addressable EN 12094-1 extinguishing panel for extinguishing zone control in compliance with VdS 2496, with integrated fire detection unit and optional convenient operating and indicating panel.

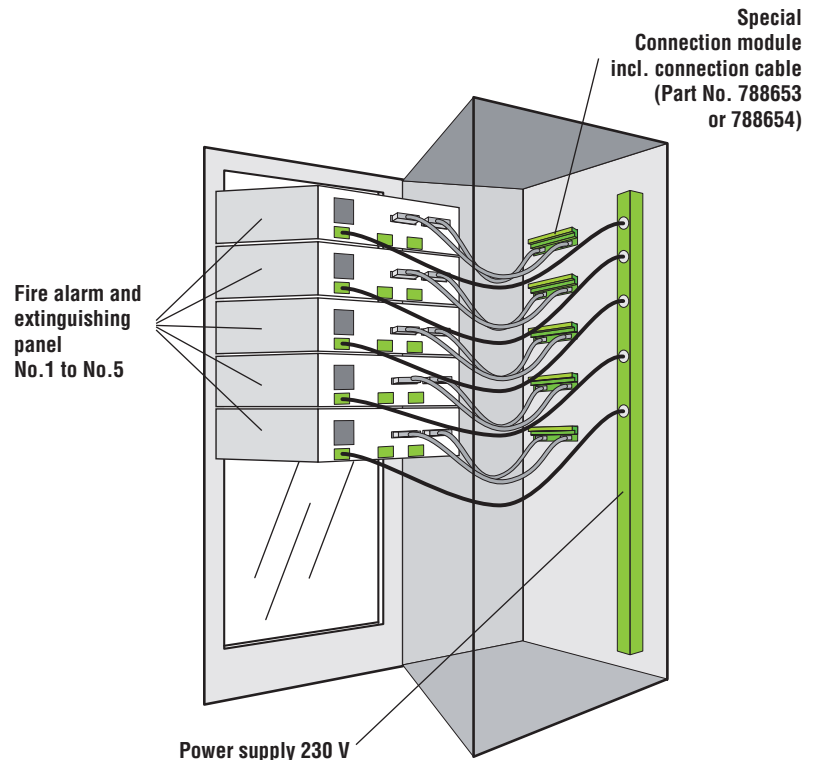
The slide-in concept enables space-saving, ergonomic integration into a 19" housing for installation heights of only 3 height units (13.34 cm). Peripherals are connected at the back of the housing via plug-in cable connections to accessible connection terminals, allowing convenient installation within the housing before the insert is integrated. With the communication transponder (Part No. 808615), a maximum of eight extinguishing control panels can be networked on one esserbus or powered loop in fire alarm systems FACP 8000 or IQ8Control. Using the programming interface plugged to the front, the extinguishing panel settings can be adjusted to the specific requirements and information can be transferred for visualizing the master fire alarm system via the loop.

Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.7 A
Quiescent current	approx. 100 mA
Battery capacity	2 x 12 V DC/12 Ah
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Type of protection	IP 30
Housing	sheet steel
Dimensions	W: 483 mm H: 132 mm D: 403 mm (without grip)
CE certificate	0786-CPD-20223



The use of heavy duty rails from the respective cabinet manufacturer is recommended for installation in 19" upright cabinets.



Installation of multiple extinguishing panels in one upright cabinet

788014.40

**Extinguishing control panel, series 4, German****Approval: VdS****Accessories**

788653 Terminal card for panel 8010 in 19" technology (3 HU), 1 m

788654 Terminal card for panel 8010 in 19" technology (3 HU), 2 m

788014.40.CZ

**Extinguishing control panel, series 4, Czech**

Same as 788014.40, but Czech version.

Accessories

788653 Terminal card for panel 8010 in 19-inch technology (3 HU), 1 m

788654 Terminal card for panel 8010 in 19-inch technology (3 HU), 2 m

788014.40.PL

**Extinguishing control panel, series 4, Polish**

Same as 788014.40, but Polish version.

788014.40.RO

**Extinguishing control panel, series 4, Romanian**

Same as 788014.40, but Romanian version.

788014.40.SK

**Extinguishing control panel, series 4, Slovakian**

Same as 788014.40, but Slovakian version.

788014.40.NL

**Extinguishing control panel, series 4, Dutch**

Same as 788014.40, but Dutch version.

788014.40.RU

**Extinguishing control panel, series 4, Russian**

Same as 788014.40, but Russian version.

788015.40

**Extinguishing control panel, series 4****Approval: VdS****Accessories**

788653 Terminal card for panel 8010 in 19" technology (3 HU), 1 m

788654 Terminal card for panel 8010 in 19" technology (3 HU), 2 m

Accessories for Extinguishing Control Panels 8010 in 19" Racks

788653

**Terminal card for panel 8010 in 19" rack, 1 m**

Length of plug-in connection cables: 1 m



2 x 50-pin connection cable 1m D-Sub50

1 x Terminal card for top hat rail or C-rail mounting with D-Sub pin connectors

1 x Terminal card for top hat rail or C-rail mounting with D-Sub multi-point connectors

788654

**Terminal card for panel 8010 in 19" rack, 2 m**

Same as 788653, but plug-in connection cable with 2 m length.

Options for Extinguishing Control Panels 8010 Wall Mounting

788400

**Indicating and operating panel for ECP 8010, German**

Integrated detector zone indication in German. Can be set to status indication for control outputs. LED for relevant extinguishing system function indication.

788401

**Indicating and operating panel for ECP 8010, English**

Same as 788400, but English.

788402

**Indicating and operating panel for ECP 8010, Polish**

Same as 788400, but Polish.

788404

**Indicating and operating panel for ECP 8010, Czech**

Same as 788400, but Czech.

788406

**Indicating and operating panel for ECP 8010, Romanian**

Same as 788400, but Romanian.

788016

**Option control group indication and alarm counter for ECP 8010, German**

Additional LEDs for indicating activated control outputs and mechanical alarm counter. The indicators are mounted to the second recess of the 8010 releasing control equipment. The PCB connection cable is connected to the (Part No. 788400) indicating and operating panel.



Foil with German description

788016.NL

**Option control group indication and alarm counter for ECP 8010, Dutch**

Same as 788016, but Dutch version.

788023.10

**Multiple-sector interface in housing****Approval: VdS**

For the formation of multiple-sector control, up to four extinguishing panels 8010 can be networked via a multiple-sector interfaces. The cascading of a max. of 3 multiple-sector interface is possible for multi-sector control of a max. of 10 extinguishing panels 8010.



Power Supplies

Power Supply Units	68
Voltage Converters	69
Batteries (Rechargeable)	70
Accessories	71

805683



External power supply DCU 2403



Features

- Reversible output voltage 12 V DC or 24 V DC
- Output current 6 A at 12 V DC or 3 A 24 V DC
- Simple integration into esserbus/ esserbus-PLus
- Internal service LED displays
- Four floating relay outputs
- Monitoring of mains voltage with selectable delay time
- Individual battery monitoring for emergency power operation
- Disengagable ground fault monitoring
- Front door with cover contact


Approval: VdS, EN54-4


External power supply in a compact metal housing for up to two 12 V/ 24 Ah batteries. This power supply facilitates an uninterruptable supply of power. Integration into the esserbus/ esserbus-PLus optional via optional adapter card (Part No. 805684.10) and esserbus Transponder (Part No. 808623).

Four floating relay outputs are available for the transmission of disturbances (power failure, ground fault, battery failure and collective fault). External LED display for operation and collective fault on the lockable front door, internal LEDs for detailed recognition of emergency power operation, individual monitoring of battery failure and ground fault.

Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Output voltage	12 V DC oder 24 V DC; $\pm 1\%$ (temperature controlled)
Output current	6 A @ 12 V DC / 3 A @ 24 V DC
Battery capacity	max. 48 Ah @ 12 V DC / max. 24 Ah @ 24 V DC
Contact load relay	max. 125 V / 1,5 A / 60 VA
Ambient temperature	-5 °C ... 40 °C
Storage temperature	-20 °C ... 45 °C
Type of protection	IP30
Housing	sheet steel
Color	gray, similar to RAL 7035
Weight	approx. 23 kg incl. batteries each 12 V DC / 24 Ah
CE certificate	0786-CPD-20935
Dimensions	W: 310 mm H: 410 mm D: 211 mm

 Batteries used in the power supply must be tested and VdS approved. Batteries of the same age from the same manufacturer coming from the same production batch must be used when connecting batteries in parallel.

 Ready-made cables for connecting 12 V/24 Ah SB batteries
Housing lock with key
Accessory pack (contains: dummy cover, insert jumper for device fuses, jumper for adjusting output voltage)

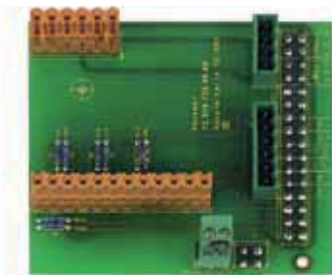
Accessories

808623 esserbus alarm transponder 4 IN 2 OUT
805684.10 Adapter for DCU 2403

805684.10



Adapter for DCU 2403



Features

- Tool-free mounting of the adapter card and esserbus couplers on the external power supply DCU 2403
- Automatic presetting of the coupler inputs for transmission of disturbances to the FACP

Plug-in adapter card for the external power supply unit (Part No. 805683) for integration into the esserbus/esserbus-PLus.

The adapter card is used to house an esserbus alarm transponder (Part No. 808623). When the esserbus transponder is plugged into the adapter card, the detector zones are automatically pre-assigned for fault signaling.

The relay outputs are freely available and can either be monitored or used for standard-compliant control of conventional alarm devices.

781335

**DC/DC converter 12 V/24 V DC****Features**

- Each output is separately fused

Approval: VdS

This converter generates 24 V as power supply for special detectors. The input voltage of 12 V is taken from the FACP or an external 12 V power supply. Mounted inside the FACP (mounting kit Part No. 788605), this module can supply up to 4 special detectors with a maximum current of 125 mA each or 1 special detector with 500 mA. This module can be integrated in cabinets (Part No. 120240, 788600 and 788601). Please pay attention to the primary current consumption (12 V) in case of mains failure.

Technical Data

Operating voltage	9 ... 15 V DC
Output voltage	24 V DC $\pm 10\%$
Output current	max. 500 mA (4 x 125 mA)
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-15 °C ... 55 °C
Type of protection	IP 40 (housing)
Weight	approx. 150 g
Dimensions	W: 65 mm H: 72 mm D: 20 mm

781336

**DC/DC converter output voltage 12 V DC****Features**

- Direct current potentials are electrically isolated
- Voltage interface, for instance, for operating transponders connected to an extinguishing control panel 8010 Series 3 configured for 12 V DC operation
- Suitable for max 1.5 mm² connection terminals
- Short circuit resilient

Approval: VdS

This converter generates 12 V as "electrically isolated" power supply for one special detector. The input voltage of 12 V is taken from the FACP or an external power supply. This module can be integrated in cabinets (Part No. 120240, 788600, 788601 and 788603.10). Please pay attention to the primary current consumption (12 V) in case of mains failure.

Technical Data

Operating voltage	10 ... 28 V DC
Output voltage	12 V DC $\pm 10\%$
Output current	max. 800 mA
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-15 °C ... 55 °C
Type of protection	IP 40 (housing)
Weight	approx. 70 g
Dimensions	W: 65 mm H: 72 mm D: 20 mm



The module can also be used in explosion endangered zones for the galvanic separation of the esserbus voltage supply.

781337

**DC/DC converter output voltage 24 V DC****Features**

- Direct current potentials are electrically isolated
- Suitable for max 1.5 mm² connection terminals
- Short circuit resilient

Approval: VdS

This converter generates 24 V as power supply for one special detector. The input voltage of 12 V is taken from the FACP or an external power supply. This module can be integrated in cabinets (Part No. 120240, 788600, 788601 and 788603.10). Please pay attention to the primary current consumption (12 V) in case of mains failure.

Technical Data

Operating voltage	10 ... 28 V DC
Output voltage	24 V DC $\pm 10\%$
Output current	max. 400 mA
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-15 °C ... 55 °C
Type of protection	IP 40 (housing)
Weight	approx. 70 g
Dimensions	W: 65 mm H: 72 mm D: 20 mm

The listed lead storage battery are maintenance-free, sealed electrolyte batteries. They are relatively position-independent (should not be charged upside-down), deep-cycled, cycle-resistant and long-lasting (4 to 5 years). Charge voltage at an ambient temperature of +20°C: 12 V DC (6 x 2.3 V per cell) 13.8 volts, this can be subject to tolerances.

Technical data sheets are available on demand.



The batteries comply with the VDE 0833-1 regulations for hazard alarm systems and are VdS approved.

018001



Battery 12 V DC/1.2 Ah capacity

018002



Battery 12 V DC/2.1 Ah capacity

018004



Battery 12 V DC/7 Ah capacity

018011



Battery 12 V DC/12 Ah capacity



2 x Fast-on adapters from 6.3 mm to 4.3 mm

018006



Battery 12 V DC/24 Ah Capacity



2 x Fast-on adapters from M6 to 6.3 mm each 2 x M5 hexagon head cap screws, washers and snap rings.

018007



Battery 12 V DC/17 Ah capacity



2 x Fast-on adapters from M6 to 6.3mm each 2 x M5 hexagon head cap screws, washers and snap rings.

018009



Battery 12 V DC/38 Ah capacity



2 x Fast-on adapters from M6 to 6.3mm each 2 x M6 hexagon head cap screws, 4 x washers and snap rings.

785753

**Battery kit**

Terminals for the connection of batteries with a minimum capacity of 12 Ah.

018051

**9 V Alkaline manganese battery**

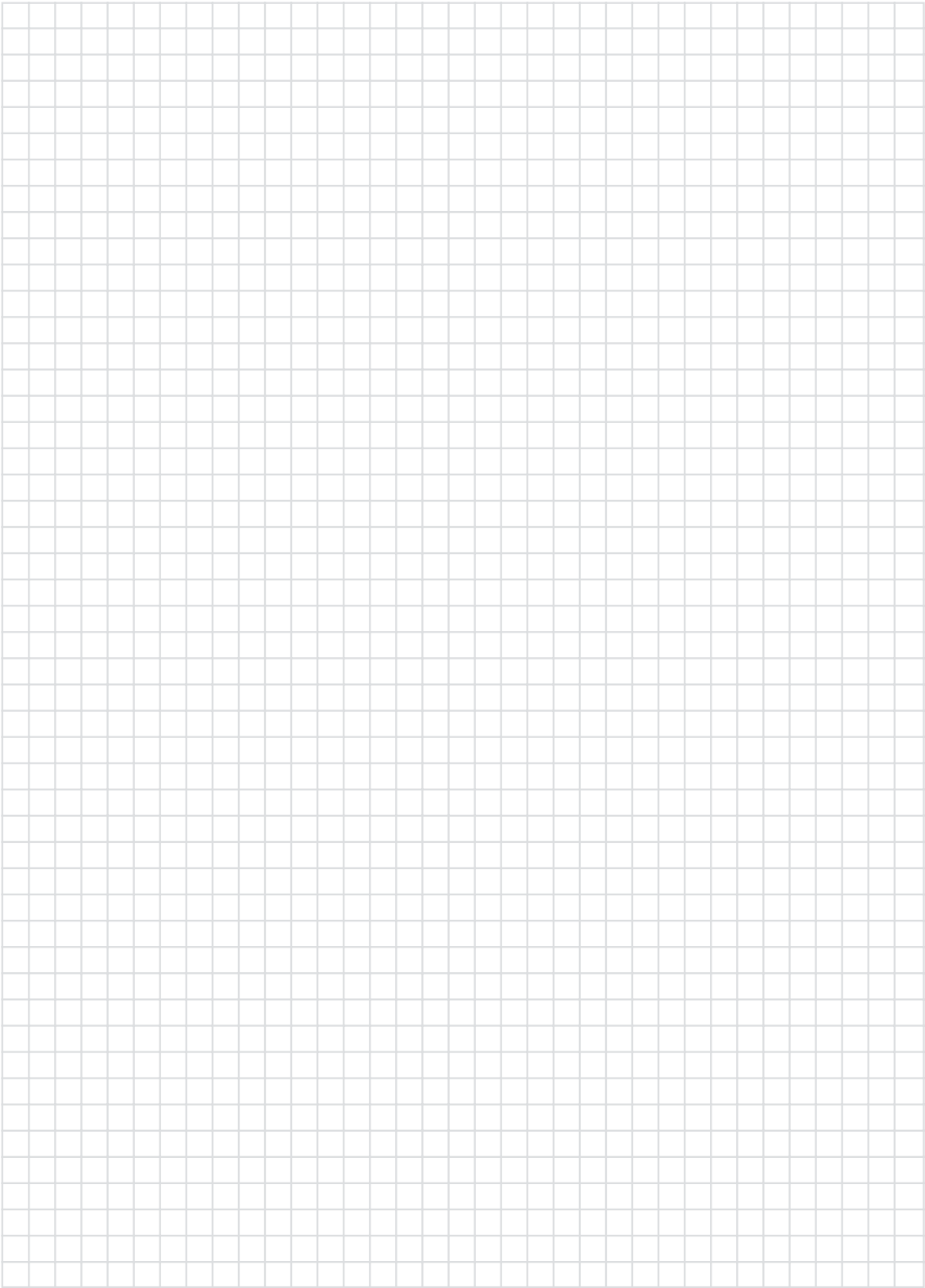
805597

**3.6 V Lithium battery**

4 Lithium batteries for use in wireless detector base (Part No. 805593.10), wireless gateway for detectors (Part No. 805594.10) and wireless universal interface (Part No. 805601.10/805602.10).



4 pcs





Displays and Operating Units	LED Indicator Panel	74
	LCD Indicator Panel	75-77
	System 3000	78-84
	Accessories	85

764790



Standard LED remote indicator panel



Approval: VdS

Additional indicator for up to 32 alarm, trouble or collective signals. Connection via an integrated 32-pin terminal strip. The indicator is controlled via relay contacts or semiconductor outputs with positive-guided contacts in the hazard detection system. With key for lamp testing, integrated buzzer and easy-to-maintain terminal card. Elegant plastic housing for surface mounting.

Technical Data

Operating voltage	10 ... 15 V DC
Quiescent current @ 12 V DC	approx. 1 mA
Alarm current @ 12 V DC	approx. 380 mA (incl. 32 LED & buzzer)
Display	32 LED, red
Connection terminal	max. 1.5mm ²
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	≤ 95% (w/o condensation)
Type of protection	IP 40
Housing	ABS plastic
Color	white (similar to RAL 9003), front blue (similar to RAL 5003)
Weight	approx. 1000 g
Dimensions	W: 270 mm H: 221 mm D: 71 mm



This indicator panel is not suitable for application as an initial warning device for the fire brigade.

804791



Loop LED remote indicator panel for 32 messages



Approval: VdS

Same as 764790, but with integrated and wired esserbus transponder 32 LEDs for operation as a remote indicating panel for the esserbus. For connection to the esserbus and powered loop in fire alarm systems 8000 and IQ8Control.

Technical Data

Operating voltage	10 ... 15 V DC
Quiescent current @ 12 V DC	approx. 1 mA
Alarm current @ 12 V DC	approx. 380 mA (incl. 32 LED & buzzer)
Display	32 LED, red
Connection terminal	1.5 mm ²
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	≤ 95% (w/o condensation)
Type of protection	IP 40
Housing	ABS plastic
Color	white (similar to RAL 9003), front blue (similar to RAL 5003)
Weight	approx. 1000 g
Dimensions	W: 270 mm H: 221 mm D: 71 mm



Isolator (Part No. 788612) not included, please order separately.

This indicator panel is not suitable for application as an initial warning device for the fire brigade.

785103



LCD indicator panel, German



Features

- Display of zone and detector status information of the FACP with additional text
- Event memory for 200 messages
- Free programming of up to max. 4,000 additional texts, each with 2 x 20 characters
- Sequential message interrogation via scroll keys
- Monitoring of the serial interface
- Internal buzzer, can be switched off via key
- Function test of the display elements
- Potential-free relay, programmable for the modes deactivated, fault, intermittent operation,
- ON-OFF operation

The LCD indicator panel is used as an add-on device for the remote display of FACP status information of the System 8000 IQ8Control relating to detectors and detector zones. Event messages are displayed via LED collective indicators and on the 2-line LCD display with the associated detector zone number and a programmable additional text. Each message is signaled via the built-in buzzer. The buzzer can be acknowledged by pressing a button.

Up to 31 LCD indicator panels can be operated on an RS 485 bus, either directly on the RS 485 interface of the basic card of FACP 8007/8000C/8000M/IQ8Control or using a common RS 485 converter (e.g. RS 232/RS 485 converter Part No. 764852) on another serial interface (e.g. RS 232). In connection with panel 8008, only possible with RS 232/TTY micromodule (Part No. 784842) and RS 232/RS 485 converter (Part No. 764852).

The additional texts are programmed using the tools 8000 software package and a service PC connected via the Part No. 789862.10 programming interface.

Technical Data

Operating voltage	8.5 ... 14 V DC
Quiescent current	approx. 30 mA
Alarm current @ 12 V DC	approx. 60 mA
Contact load relay	30 V DC / 1 A (potential free)
Ambient temperature	0 °C ... 45 °C
Storage temperature	0 °C ... 50 °C
Type of protection	IP30
Housing	plastic (ABS)
Color	white, similar to RAL 9001
Weight	approx. 750 g
Dimensions	W: 206 mm H: 177 mm D: 48.5 mm



This indicator panel cannot be used as an initial warning device for the fire brigade.

785101



LCD indicator panel, English



Features

- Display of zone and detector status information of the FACP with additional text
- Event memory for 200 messages
- Free programming up to a max. of 4,000 additional texts, each with 2 x 20 characters
- Sequential message interrogation via scroll keys
- Monitoring of the serial interface
- Internal buzzer, can be switched off via key
- Function test of the display elements
- Potential-free relay, programmable for the modes deactivated, fault, intermittent operation
- ON-OFF operation

The LCD indicator panel is used as an add-on device for the remote display of FACP status information of the System 8000 IQ8Control relating to detectors and detector zones. Event messages are displayed via LED collective indicators and on the 2-line LCD display with the associated detector zone number and a programmable additional text. Each message is signaled via the built-in buzzer. The buzzer can be acknowledged by pressing a button.

Up to 31 LCD indicator panels can be operated on an RS 485 bus, either directly on the RS 485 interface of the basic card of FACP 8007/8000C/8000M/IQ8Control or using a common RS 485 converter (e.g. RS 232/RS 485 converter Part No. 764852) on another serial interface (e.g. RS 232). In connection with panel 8008, only possible with RS 232/TTY micromodule (Part No. 784842) and RS 232/RS 485 converter (Part No. 764852).

The additional texts are programmed using the tools 8000 software package and a service PC connected via the Part No. 789862.10 programming interface.

Technical Data

Operating voltage	8.5 ... 14 V DC
Quiescent current	approx. 30 mA
Alarm current @ 12 V DC	approx. 60 mA
Ambient temperature	0 °C ... 45 °C
Storage temperature	0 °C ... 50 °C
Type of protection	IP30
Housing	plastic (ABS)
Color	white, similar RAL 9001
Weight	approx. 750 g
Dimensions	W: 206 mm H: 177 mm D: 48.5 mm

785102



LCD indicator panel, French



Features

- Display of zone and detector status information of the FACP with additional text
- Event memory for 200 messages
- Free programming up to a max. of 4,000 additional texts, each with 2 x 20 characters
- Sequential message interrogation via scroll keys
- Monitoring of the serial interface
- Internal buzzer, can be switched off via key
- Function test of the display elements
- Potential-free relay, programmable for the modes deactivated, fault, intermittent operation
- ON-OFF operation

Approval: NF-SSI

The LCD indicator panel is used as an add-on device for the remote display of FACP status information of the System 8000 IQ8 Control relating to detectors and detector zones. Event messages are displayed via LED collective indicators and on the 2-line LCD display with the associated detector zone number and a programmable additional text. Each message is signaled via the built-in buzzer. The buzzer can be acknowledged by pressing a button.

Up to 31 LCD indicator panels can be operated on an RS 485 bus, either directly on the RS 485 interface of the basic card of FACP 8007/8000C/8000M/IQ8 Control or using a common RS 485 converter (e.g. RS 232/RS 485 converter Part No. 764852) on another serial interface (e.g. RS 232). In connection with panel 8008, only possible with RS 232/TTY micromodule (Part No. 784842) and RS 232/RS 485 converter (Part No. 764852). The additional texts are programmed using the tools 8000 software package and a service PC connected via the 789862.10 programming interface.

Technical Data

Operating voltage	8.5 ... 14 V DC
Quiescent current	approx. 30 mA
Alarm current @ 12 V DC	approx. 60 mA
Ambient temperature	0 °C ... 45 °C
Storage temperature	0 °C ... 50 °C
Type of protection	IP30
Housing	plastic (ABS)
Color	white, similar RAL 9001
Weight	approx. 750 g
Dimensions	W: 206 mm H: 177 mm D: 48.5 mm

785108



LCD indicator panel for system 800, French

Approval: NF-SSI

Same as 785102, but for system 800.

Technical Data

Operating voltage	8.5 ... 14 V DC
Quiescent current @ 12 V DC	approx. 30 mA
Alarm current @ 12 V DC	approx. 60 mA
Ambient temperature	0 °C ... 45 °C
Storage temperature	0 °C ... 50 °C
Type of protection	IP30
Housing	plastic (ABS)
Color	white, similar RAL 9001
Weight	approx. 750 g
Dimensions	W: 206 mm H: 177 mm D: 48.5 mm

785112



LCD indicator panel for CMSI 8000, French



Features










- Display of zone and detector status information of the CMSI with additional text
- Event memory for 200 messages
- Free programming up to a max. of 4,000 additional texts, each with 2 x 20 characters
- Sequential message interrogation via scroll keys
- Monitoring of the serial interface via CMSI
- Potential-free relay, programmable for the modes deactivated, fault, intermittent operation
- Function test of the display elements

Approval: NF-SSI

The LCD indicator panel Part No. 785112 is used as an add-on device for the remote display of status information of the system CMSI 8000.

Technical Data

Operating voltage	8.5 ... 14 V DC
Quiescent current	approx. 30 mA
Alarm current @ 12 V DC	approx. 60 mA
Ambient temperature	0 °C ... 45 °C
Storage temperature	0 °C ... 60 °C
Type of protection	IP30
Color	gris, bleu foncé
Weight	approx. 750 g
Dimensions	W: 206 mm H: 177 mm D: 48.5 mm

785104		LCD indicator panel, Italian	Same as 785101, but Italian version.
785105		LCD indicator panel, Spanish	Same as 785101, but Spanish version.
785107		LCD indicator panel, Polish	Same as 785101, but Polish version.
785109		LCD indicator panel, Czech	Same as 785101, but Czech version.
785113		LCD indicator panel, Hungarian	Same as 785101, but Hungarian version.
785114		LCD indicator panel, ESSER, Dutch	Same as 785101, but Dutch version.
785116		LCD indicator panel, Portuguese	Same as 785101, but Portuguese version.
785115		LCD indicator panel, Turkish	Same as 785101, but Turkish version.
785117		LCD indicator Panel, Romanian	Same as 785101, but Romanian version.

Fire Brigade Operating Panels

784710



Fire brigade operating panel, German

**Approval: VdS**

The fire brigade operating unit (in accordance with DIN 14661) is an additional device for fire detection systems that contains transmission units to the fire brigade. The essential display and operating elements of the FACP panel are located on the fire brigade operating unit (FBOU). The fire brigade can handle all necessary alarm measures via the FBOU – so they do not need any special introduction to the control panel.

Technical Data

Operating voltage	10.5 ... 30 V DC
Quiescent current @ 12 V DC	approx. 18 mA
Alarm current @ 12 V DC	approx. 75 mA
Ambient temperature	0 °C ... 50
Storage temperature	-10 °C ... 60 °C
Type of protection	IP 30
Housing	sheet steel
Color	gray, similar to RAL 7032
Weight	approx. 3.4 kg
Dimensions	W: 255 mm H: 185 mm D: 58 mm



This fire brigade operating unit is not compatible with FlexES Control!



The fire brigade operating panel is supplied without locking cylinder (DIN 18252). It should be acquired in accordance with the guidelines provided by the regional fire brigade.

784710.PL

Fire brigade operating panel, Polish

Same as 784710, but Polish version.

784710.CZ



Fire brigade operating panel, Czech

Approval: VdS

Same as 784710, but Czech version.



This fire brigade operating unit is not compatible with the FlexES control!



The fire brigade operating panel is supplied without locking cylinder (DIN 18252). It should be acquired in accordance with the guidelines provided by the regional fire brigade.

764818



Fire brigade operating panel (FBF-Ö), Austrian



- Fire brigade operating panel in compliance with ÖNORM F 3031 (2004)
- Plain text display with 2 lines and 16 characters for each line, illuminated
- 3 signals can be collectively indicated per LED (in operation, alarm, fault / deactivation)
- 2 optional status LED (BFS extinguishing system actuation)
- 3 buttons for FACP feedback
- Direct programming at the fire brigade operating panel via serial interface
- The additional text is displayed when using the shortcut deactivation + fault.

Technical Data

Operating voltage	10.5 ... 30 V DC
Current consumption	50 mA (with lighting) 40 mA (w/o lighting)
Ambient temperature	0 °C ... 50
Storage temperature	-10 °C ... 60 °C
Type of protection	IP 30
Housing	sheet steel
Color	red, similar to RAL 3000
Weight	approx. 2.5 kg
Dimensions	W: 205 mm H: 300 mm D: 60 mm



This fire brigade operating unit is not compatible with FlexES Control!

LCD Indicator Panels

784743



Fire brigade indicating panel FAT 3000, German



Approval: VdS

Microprocessor-controlled fire brigade indicating panel in compliance with DIN 14662 as an additional indicator for fire alarm panels. Serial connection to the fire alarm panel via variable interfaces TTY, DUAL RS 485, RS 232 and ESPA 4.4.4 (on board), conventional and redundant activation, plain text display with 4 x 20 characters, collective LED indication (alarm, trouble, deactivation). Simple handling with 4 buttons (buzzer OFF/level/scroll buttons). Additional text (> 4,000 texts) can be programmed using a PC with serial interface connection, event memory, redundancy via loop structure for up to 16 FAT, power supply and signaling pathway are monitored to prevent short or open circuits, full functional range during breakdown of one circuit. The ESPA interface enables direct connection of telecommunication and paging systems.

Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 12 V DC	approx. 65 mA
Alarm current @ 12 V DC	approx. 125 mA
Ambient temperature	-5 °C ... 40 °C
Storage temperature	-10 °C ... 60 °C
Type of protection	IP30
Housing	sheet steel
Color	gray, similar to RAL 7032
Weight	approx. 3.5 kg
Dimensions	W: 255 mm H: 185 mm D: 58 mm



The module can only be used when combined with a System 8000 or IQ8Control FACP.



Programming software "FatProgWin" is included.

784743.PL



Fire brigade indicating panel, Polish



Same as 784743, but Polish version.

Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 12 V DC	approx. 65 mA
Alarm current @ 12 V DC	approx. 125 mA
Ambient temperature	-5 °C ... 40 °C
Storage temperature	-10 °C ... 60 °C
Type of protection	IP30
Housing	sheet steel

784743.CZ



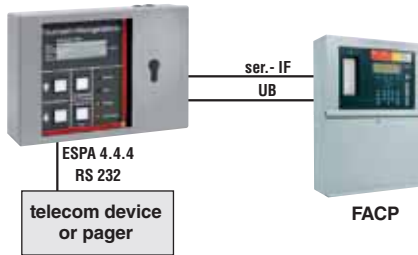
Fire brigade indicating panel, Czech

Same as 784743, but Czech version.



Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 12 V DC	approx. 65 mA
Alarm current @ 12 V DC	approx. 125 mA
Ambient temperature	-5 °C ... 40 °C
Storage temperature	-10 °C ... 60 °C
Type of protection	IP30
Housing	sheet steel
Color	gray, similar to RAL 7032
Weight	approx. 3.5 kg
Dimensions	W: 255 mm H: 185 mm D: 58 mm



Can only be used together with control unit of system 8000!



Includes a cable for programming software "FatProgWin".

Plain Text Indicators and Operating Panels

784725



FB information and operating system, DIN A4, German



Sheet steel housing with two leaves for surface mount or flush mount installation with central leaf opening for both door leaves. The right-hand housing door can be individually opened by means of a built-in CL1 lock. Door opening through fire brigade locking (suitable for half profile cylinder installation). In the left-hand half of the housing, a Part No. 784743 fire service indicator panel and a fire service operating panel Part No. 784710 are installed. The housing is designed for receiving a transmission unit or a manual call point. The fire service indicator panel is actuated via the serial interface in the control panel. The fire service operating panel is connected to the control panel interface. A maximum of 2 x 100 DIN A4 / horizontal layout fire brigade route maps can be integrated.

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current @ 12 V DC	approx. 50 mA
Alarm current @ 12 V DC	approx. 180 mA
Ambient temperature	-5 °C ... 40 °C
Storage temperature	-10 °C ... 60 °C
Type of protection	IP30
Housing	sheet steel
Color	red, similar to RAL 3000
Weight	approx. 15 kg
Dimensions	W: 710 mm H: 560 mm D: 100 mm



Only in combination with the System 8000, IQ8Control fire detection panels. For redundant operation, redundancy module ADP-N3E (Part No. 784744) is required.



Double-leaf sheet steel housing
Fire service indicating panel Part No. 784743
Fire service operating panel Part No. 784710

784725.PL



FB information and operating system, DIN A4, Polish



Same as 784725, but Polish version.

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current @ 12 V DC	approx. 50 mA
Alarm current @ 12 V DC	approx. 180 mA
Ambient temperature	-5 °C ... 40 °C
Storage temperature	-10 °C ... 60 °C
Type of protection	IP30
Housing	sheet steel
Color	red, similar to RAL 3000
Weight	approx. 15 kg
Dimensions	W: 710 mm H: 560 mm D: 100 mm



Only in combination with the System 8000, IQ8Control fire detection panels. For redundant operation, redundancy module ADP-N3E (Part No. 784744) is required.



Double-leaf sheet steel housing
Fire service indicating panel Part No. 784743
Fire service operating panel Part No. 784710

784726



FB information and operating system, DIN A3, German



Same as 784725, but for a maximum of 80 DIN A3 fire brigade route maps (transverse).

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current @ 12 V DC	approx. 50 mA
Alarm current @ 12 V DC	approx. 180 mA
Ambient temperature	-5 °C ... 40 °C
Storage temperature	-10 °C ... 60 °C
Type of protection	IP 30
Housing	sheet steel
Color	red, similar to RAL 3000
Weight	approx. 17 kg
Dimensions	W: 830 mm H: 560 mm D: 100 mm



Only in combination with System 8000 and IQ8Control fire alarm panels.
For redundant operation, the redundancy module ADP-N3E (Part No. 784744) is required.



784726.PL



FB information and operating system, DIN A3, Polish

Same as 784726, but Polish version.

Adapter Modules

784744



Adapter module ADP-N3E



Features

- Input: TTY from the internal FACP interface
- Output: DUAL RS 485 to the FAT interface

Microprocessor-controlled module for installation (mounting rail) in System 8000 or IQ8Control fire alarm panels. In compliance with DIN 14675, the TTY interface can be used for redundant transmission when the adaptor is connected and when the fire brigade indicating panel FAT 3000 is used for initially informing the fire brigade. Additional text (> 4,000 texts) can be programmed using a PC with serial interface connection.

Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 12 V DC	approx. 55 mA
Contact load relay	30 V DC / 1 A
Connection terminal	max 2 x 0.8 mm ²
Ambient temperature	-5 °C ... 40 °C
Storage temperature	-10 °C ... 60 °C
Weight	approx. 100 g
Dimensions	W: 80 mm H: 150 mm D: 30 mm



The top hat rail module (Part No. 788652) and the module housing for snap-on mounting rail (Part No. 788603.10) can be used for installation. The interface is compatible with FAT 3000 (Part No. 784743). Power is supplied by the fire alarm panel or an external power supply unit. Maximum data line length: 800 m.

784734



Adapter module ADP-N3S



Same as 784744, but for the integration of another fire detection system into an existing redundant FAT 3000 bus in an ADP-N3E adaptor module. Unlike the ADP N3E, the ADP-N3S does not provide power supply for redundant operation.

Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 12 V DC	approx. 60 mA
Contact load relay	30 V DC / 1 A
Connection terminal	max 2 x 0.8 mm ²
Ambient temperature	-5 °C ... 40 °C
Storage temperature	-10 °C ... 60 °C
Weight	approx. 100 g
Dimensions	W: 80 mm H: 150 mm D: 30 mm



This adapter is not compatible with FlexES control!

784753



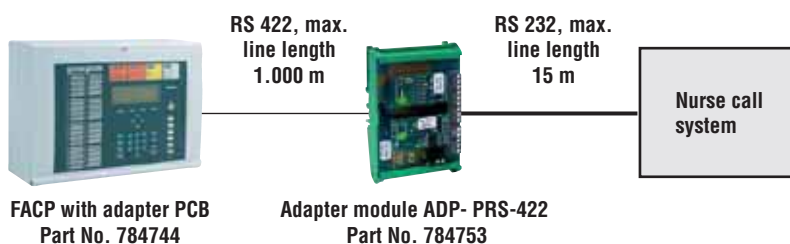
Adapter module ADP-PRS-422



Additional module for connecting a paging system to a series 8000/IQ8Control fire alarm system with ADP-N3E. To connect the paging system via an electrically isolated RS 232 interface, an ADP-PRS-422 is used.

Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 12 V DC	approx. 5 mA
Dimensions	W: 100 mm H: 80 mm D: 20 mm



Connection example

784754



Adapter module ADP-PRS-232



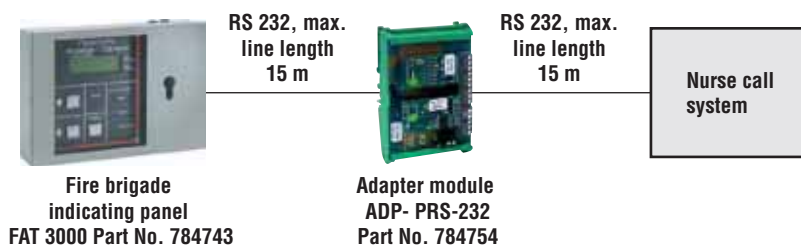
The adapter module is an additional module suitable for electrically isolated connection of a paging system to a FAT 3000. The FAT 3000 programming interface (RS 232 terminal) is used for communication with the paging system. If an electrically isolated connection between the FAT and the paging system is required, an ADP-PRS-232 must be used additionally.

Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 12 V DC	approx. 5 mA
Dimensions	W: 100 mm H: 80 mm D: 20 mm



The ADP PRS-422 module can also be used to connect a PC to the serial interface Part No. 784847.



Connection example

Accessories

764896

**Emergency file depot, DIN A4, red, German**

On the back of every emergency file depot are 4 holes and on the front side 4 bracket hooks. For the installation on any base, 4 flat head screws are to be set out (max. 4 mm Ø). The first emergency file depot is hooked up on the screws. Every new emergency file depot is mounted to the four latches and snaps in behind a metal lug 8 see example of use). Each single emergency file deposit is mounted end-stackable on the last one so that the required emergency file number can be selected on the spot.

Technical Data

Color	red, similar to RAL 3000
Weight	approx. 730 g
Dimensions	W: 310 mm H: 212 mm D: 12 mm



1 x Emergency file depot
10 x Routing cards



Application example with three staggered emergency file deposits.

784731

**Route map housing for DIN A3 expansion, German**

Sheet steel housing for surface or flush mounting. Option to open door through fire brigade access lock: prepared for semi-cylinder insertion.

Technical Data

Dimensions	W: 491 mm H: 560 mm D: 100 mm
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1 folder for 100 fire brigade route maps, A3
Door labeling: "Feuerwehrlaufkarten"

784732

**Route map housing for DIN A4 expansion, German**

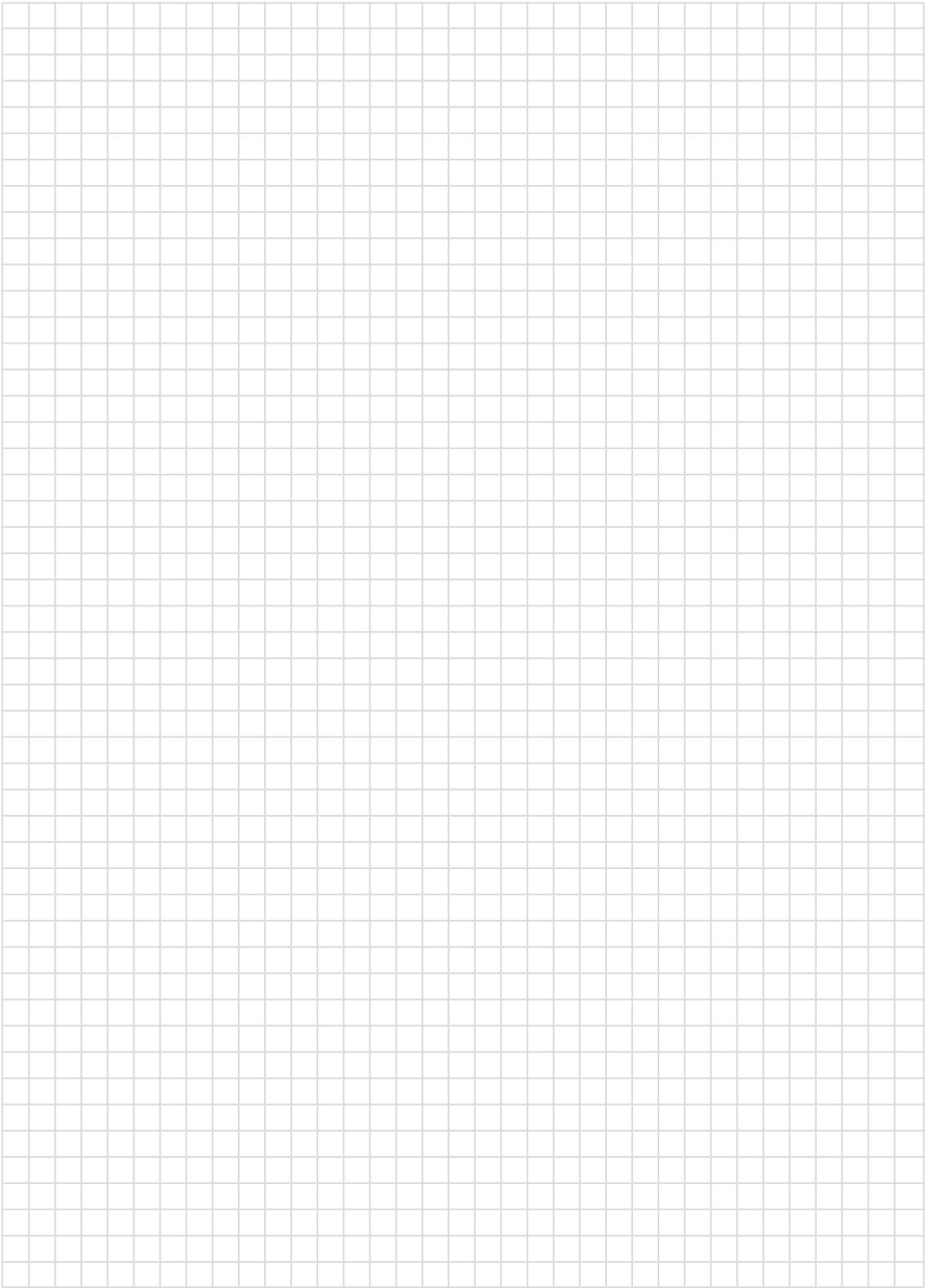
Sheet steel housing for surface or flush mounting. Option to open door through fire brigade access lock: prepared for semi-cylinder insertion.

Technical Data

Dimensions	W: 371 mm H: 560 mm D: 100 mm
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2 folders for 100 fire brigade route maps, A4
Door labeling: "Feuerwehrlaufkarten"





Data Transmission

Analog Transmission Devices

88

ISDN Dialing Devices

89-90

Accessories

91-92

Alarm Receiver

93-94

057865



DS 6750 PSTN/IP-auto dialer

NEW**Features****Features on analog telephone line**

- Remote control and remote request via DTMF
- Contact ID transmission protocol
- SMS notification
- E-Mail via PPP (max. 10 E-Mail addresses)
- VdS 2465 IP-connections via PPP
- NTP via PPP (synchronization with time server)
- WINMAG "stand-alone" connection
- IQ MultiAccess

Features Ethernet connection

- CHIASMUS-encryption of IP-connections
- NTP (synchronization with time server)
- WINMAG via IP (max. 4 at the same time)
- WINMAG via IP (max. 4 at the same time) "stand-alone" connection
- IQ MultiAccess
- Video center connection via IP (max. 2 at the same time)

Features GSM / GPRS connection

- Contact ID transmission protocol with RFW-4000
- E-Mail via GPRS
- CHIASMUS encryption of IP connections
- NTP via GPRS (synchronization with time server)

Approval: G 111803 (IDT)

Transmission of information via the analog telephone network (PSTN) and/or IP network. Suitable for connection to main exchange line or extension line of the public telephone network.

With AWAG functionality, direct possibility of WINMAG connection, contact-ID transmission and Ethernet interface for connection to IP-networks. Interface for connection to GSM networks (in conjunction with RFW-4000).

Technical Data

Operating voltage	10.5 ... 15 V DC
Quiescent current @ 12 V DC	approx. 135 mA (150 mA @ Ethernet)
Alarm current @ 12 V DC	approx. 155 mA (170 mA @ Ethernet)
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 70 °C
Dimensions	L: 158 mm W: 112 mm (circuit board)

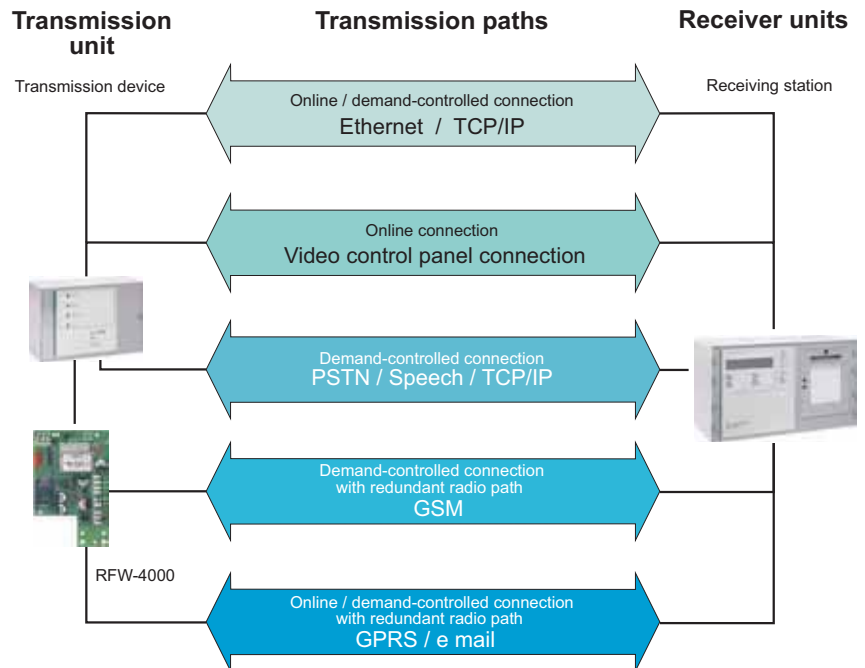


Telecom connecting cable

Serial connecting cable for intrusion detection control panel

Accessories

057655	FDS connection board for transmission device
057632	Sheet steel housing ZG1 with room for power supply unit and battery
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah integratable in Part. No. 057632
018004	12 V DC / 6.5 Ah battery
057590	RFW-4000 GSM/GPRS plug in module
057575	RFW-3000 GSM/GPRS transmission system



Application example

057650.20



DS 7600 ISDN communication module with speech function



Features

- Can be used on an ISDN multi-device connection and ISDN system connection (PTP, PTMP)
- Active, galvanically and functionally decoupled ISDN-S0-BUS for downstream ISDN devices
- Serial interface S1 according to VdS 2463 and VdS 2465
- Parallel interface S1 of 8 inputs according to VdS 2463 (freely programmable inputs)
- 2 potential-free outputs for positive drive, signaling or camera activation
- 80 additional monitored and freely programmable inputs and outputs can be set up
- Non-volatile parameter and event memory (at least 1,000 entries)
- Real-time clock with battery-backup
- Freely configurable dialing sequences for different event types
- Transmission via the ISDN-B channel (VdS 2465, TELIM, V.110)
- Transmission via the ISDN-D channel (X.31), 4 online or demand-controlled connections
- SMS transmission, paging, voice messages and remote control function via ISDN-B channel
- Speech transmission by predefined message texts (in German) and DTMF recognition without any additional extensions
- Up to 4 individual texts with up to 3 sec recordable through ISDN phone
- GSM data connections (V.110) with RFW 2000 (optional extension)
- SMS and email transmission via GSM with RFW 2000 (optional extension)
- Simultaneous use of all transmission types and transmission channels possible
- 20 telephone numbers, 4 dial-up access numbers for X.31 and 5 email addresses programmable
- Permanent monitoring transmission paths and system states including recording
- Integrated protocol analyzer for service purposes
- Intelligent anti-block function for ISDN with protection of emergency call connection
- Telephone number check and password prompt for remote access
- Remote control function via voice or DTMF
- Voice supported user guidance for remote access and remote control over the telephone
- Parameterization via WINFEM Advanced (USB or remote access) or via panel
- Direct connection of a GPS antenna and transmission of the site coordinates possible

Approval: G 106801 (IDT); VSÖ W 070427/39 E

Alarm transmission via ISDN, suitable for connection to ISDN phone lines(multipoint or point-to-point connections).

Interface for connection to GSM networks (with RFW 2000). Includes ISDN connecting cable

Technical Data

Operating voltage	10.5 ... 15 V DC
Quiescent current @ 12 V DC	approx. 100 mA
Current consumption stand-by #2	< 100 mA
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 70 °C
Dimensions	L: 158 mm W: 112 mm (PC Board)

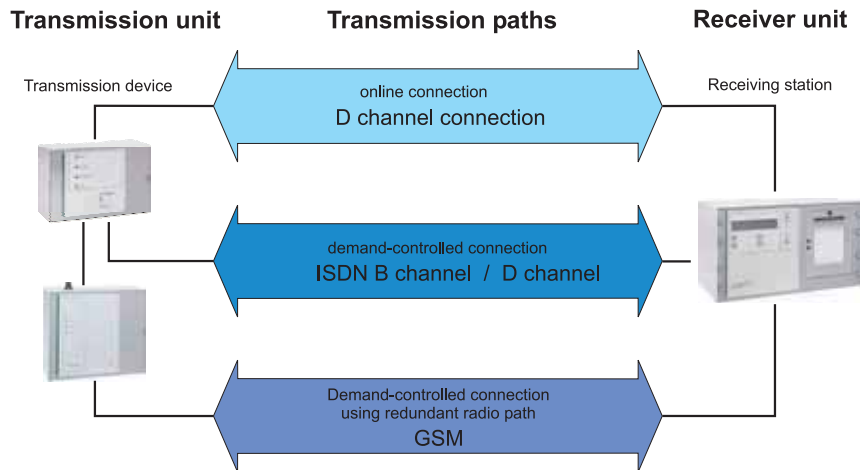
Accessories

057631 Sheet steel housing ZG 0

057632 Sheet steel housing ZG 1 with space for power supply unit and battery

057530.10 Power supply/charging unit 12 V DC/7.2 Ah

018002 12 V DC/2.0 Ah battery



Example of application

057651.20



DS 7700 ISDN/IP communication module, with speech transmission



Features

- Full functionality with ISDN multipoint connection and ISDN point-to-point connection (PTP, PTMP)
- Alarm transmission, remote control and remote parameterization via IP networks
- Active, galvanically and functionally decoupled ISDN-S0-BUS for downstream ISDN devices
- Ethernet interface for connection to IP networks
- Serial interface S1 according to VdS 2463 and VdS 2465
- Parallel interface S1 with 8 inputs according to VdS 2463 (freely programmable inputs)
- 2 potential-free outputs for positive drive, coerciveness, signaling or camera activation
- 80 additional monitored and freely programmable inputs and outputs can be set up
- Non-volatile parameter and event memory (at least 1,000 entries)
- Battery-backup real-time clock,
- Freely configurable dialing sequences for different event types
- Transmission via the ISDN-B channel (VdS 2465, TELIM, V.110)
- Transmission via the ISDN-D channel (X.31), 4 online or demand-controlled connections
- SMS transmission, paging, voice messages and remote control function via ISDN-B channel
- Speech transmission by predefined message texts (in German) and DTMF recognition without any additional extensions
- Up to 4 individual texts with up to 3 sec recordable through ISDN phone
- GSM data connection (V.110) with RFW 2000 (optional extension)
- SMS and email transmission via GSM with RFW 2000 (optional extension)
- Simultaneous use of all transmission types and transmission channels possible
- 20 telephone numbers, 4 dial-up access numbers for X.31 and 5 email addresses programmable
- Permanent monitoring of the transmission paths and system states including recording
- Integrated protocol analyzer for service purposes
- Intelligent anti-block function for ISDN with protection for emergency call connection
- Telephone number check and password prompt for remote access
- Remote control function via voice or DTMF
- Voice controlled user guidance for remote access and remote control over the telephone
- Parameterization via WINFEM Advanced (USB or remote access) or via panel
- Direct connection of a GPS antenna and transmission of the site coordinates possible

Approval: G 106801 VdS (IDT); VSÖ W 070427/38 E

Information transmission via ISDN and/or IP network, suitable for connection to ISDN phone lines (multipoint or point-to-point connections).

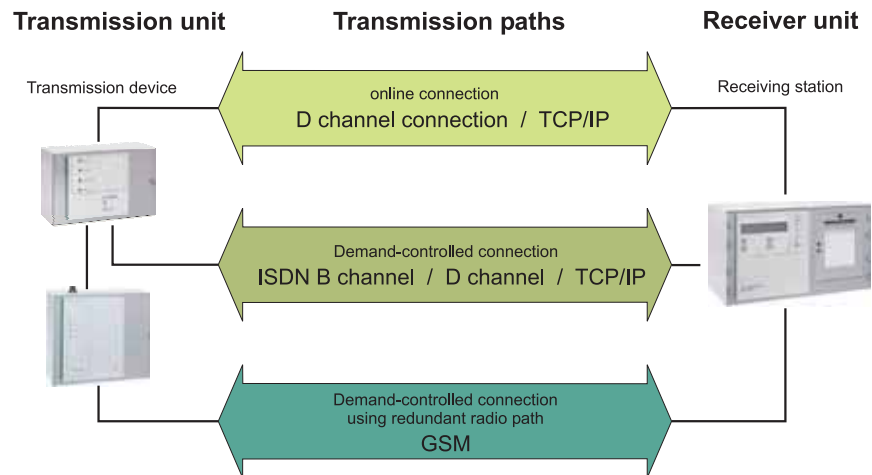
Ethernet interface for connection to IP networks, interface for connection to GSM networks (in connection with RFW 2000). Incl. ISDN connecting cable.

Technical Data

Operating voltage	10.5 ... 15 V DC
Quiescent current @ 12 V DC	approx. 160 mA
Current consumption stand-by #2	< 160 mA
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 70 °C
Dimensions	L: 158 mm W: 112 mm (PC Board)

Accessories

- 057631 Sheet steel housing ZG 0
- 057632 Sheet steel housing ZG 1 with room for power supply unit and battery
- 057530.10 Power supply/charger unit 12 V DC/7.2 Ah
- 018004 12 V DC/6.5 Ah battery



Application example

057631

**Additional housing ZG 0 for ISDN communication modules****Technical Data**

Housing

with swiveling door 2 mm sheet steel, oven enameled

Color

gray, similar to RAL 9002

Dimensions

W: 230 mm H: 155 mm D: 90 mm



No room for emergency power supply

057632

**Additional housing ZG 1 for ISDN communication module****Technical Data**

Housing

with swiveling door 2 mm sheet steel, oven enameled

Color

gray, similar to RAL 9002

Dimensions

W: 300 mm H: 186 mm D: 125 mm



Room for emergency power supply 057530.10 and 1 battery 018002.10 or 018004.10.

057530.10

**Power supply/charging unit 12 V DC/7.2 Ah****Approval: G 190702 (IDT), class A; VSÖ P 070427/79**

Fully electronic, voltage-stabilized and current-limited power supply unit/charger for redundancy standby operation with battery monitoring, designed for a battery capacity of up to 7.2 Ah.

Technical Data

Battery capacity

max. 1 battery lockable

Dimensions

L: 140 mm W: 60 mm

057846

**ISDN connection lead with two RJ connectors, 1.5 m**

057850

**ISDN terminal box**

For connection to two separate exchange lines.

057655

**FDS connection board for transmission device**

The optional ATS adapter for fire panels provides an interface for fire alarm systems according to DIN 14675, appendix B and VdS 2463. The adapter permits the transmission of fire and fault notifications from fire alarm panels by means of DS 7700/DS 7600.

Features

- Interface according to DIN 14675 and VdS 2463
- Inputs for transmission of alarm indications from fire alarm systems
- For use in fire alarm systems with 12V DC or 24V DC power supply voltage

057633

**Installation frame for transmission units and transponders**

Installation frame specially designed for 8000 C/M, IQ8Control C/M and FlexES Control panels (IQ8Control C only with extension housing).

Technical Data

Dimensions

W: 280 mm H: 130 mm D: 25 mm



- 1 x Installation frame
- 1 x Insulation foil and installation material

Phase-out date: 28.03.2013

Application example

DEZ 9000 Alarm Receiver

Features

- Up to 8 network access options
- Receiver modules for ISDN or TELIM-compatible transmission systems
- Connection via X.25/X.31 (ISDN D channel) or TCP/IP (Ethernet) allows a permanently active virtual connection to the connected premises
- Receiver module for TCP/IP (Ethernet) can be integrated
- VdS-compliant encryption of the transmission for premises connected via TCP/IP
- Receiver module for Datex-P can be integrated
- 4x40-digit alphanumeric LC display
- 40-digit thermal transfer printer
- Different interface protocols for downstream control center DIN 66019 (TSS 31)
- Configuration via control center or via directly connectable PC keyboard
- Comfortable PC user interface including control center functions (DEZ-WIN) included in the delivery (upload/download)
- Runs under Windows 9X/ NT / 2000 / XP
- Remote control of fault detectors/transmission devices possible
- Automatic remote inquiry (status inquiry)
- Stand-alone or 19" model
- Event memory having a minimum capacity of 20 events/premises
- Separate event memory for system activities, history memory
- User-definable text macros
- Extensive configuration options (printer, buzzer, routine call monitoring)
- Independent routine call monitoring possible
- Extensive statistics and diagnosis functions
- Reception via GSM networks D1 and D2 (in connection with ISDN receiver module and GSM adapter)

Approval: G 196801 VdS (IDT)

The alarm receiver DEZ 9000 is used for message reception, registration and processing of alarms, faults and test messages from hazard and fault detection systems. The control panel has been designed as front end computer and "services concentrator" for a downstream remote control center. If no control center is available, the DEZ 9000 can be used as universal reception computer. Owing to the option of connecting an external computer (PC), a comfortable operating and configuration software having selected control center functions is available in the form of the "DEZ-WIN" Windows program.

A 40-digit alphanumeric thermal transfer printer for recording is available as a standard feature. This allows the operator continuous documentation of events that are not recorded by the downstream control center or of events whose printout is absolutely necessary. Its modular structure and performance makes the DEZ 9000 a device component that also meets the requirements resulting from the modern transmission media (e.g. ISDN) and complex information processing. The hardware requirements for receiving messages from GSM networks are provided by means of the RFW-2000 E (057580) module.

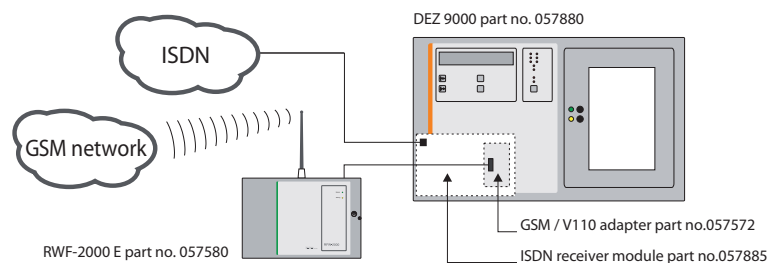
The RFW-2000 E essentially consists of a radio terminal and suitable connection components, installed in a steel sheet housing ZG 2, on which the required antenna has also been mounted. The RFW-2000 E is connected to the GSM/V.110 adapter included in the delivery, which can be plugged into an existing ISDN receiver module.

If a connection in accordance with VdS, in order to provide a replacement path on the control center side, is not required, the RFW-2000 E module does not have to be used. In this case, the GSM/V.110 adapter (057572) is sufficient for receiving alarms via GSM networks. It is plugged into an existing ISDN receiver module.

Optional IP receiver modules allow the premises to be monitored to be connected to the DEZ 9000 via private or public IP networks. The transmission method used is the protocol "VdS 2465 for TCP/IP" required by the VdS.

Technical Data

Operating voltage	10.5 ... 15 V DC
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-25 °C ... 70 °C
Type of protection	IP30
Dimensions	W: 488 mm H: 272 mm D: 230 mm



Planning example

057881



DEZ 9000 19" front panel, 6 HU, installation in a 19" housing



When assembled in a 19" housing, its full capacity can be achieved by incorporating 8 receiver modules.

40-digit thermal transfer printer; 2 MB memory card; serial interface for connecting a remote control center or an external computer (PC); includes "DEZ-WIN" PC user interface.

Phase-out date: 11.09.2012

Accessories

057884

**2MB RAM extension for DEZ 9000**

Required for more than 500 buildings

Phase-out date: 28.03.2013

059200

**Software update, German, for DEZ 9000**

059201

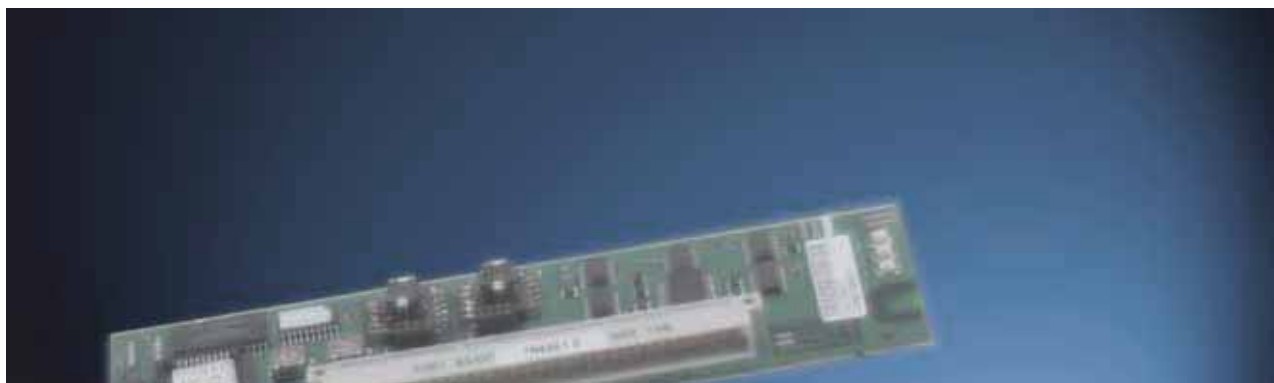
**Software update, German, for DEZ ISDN receiver module**

057882

**19" assembly plate****19" mounting plate for 4 receiver modules 6 HE, installation in 19" cabinet**

The mounting plate allows 4 receiver modules to be integrated in a 19" cabinet.

Phase-out date: 28.03.2013



Network

essernet

Multiprotocol Gateway

96-101

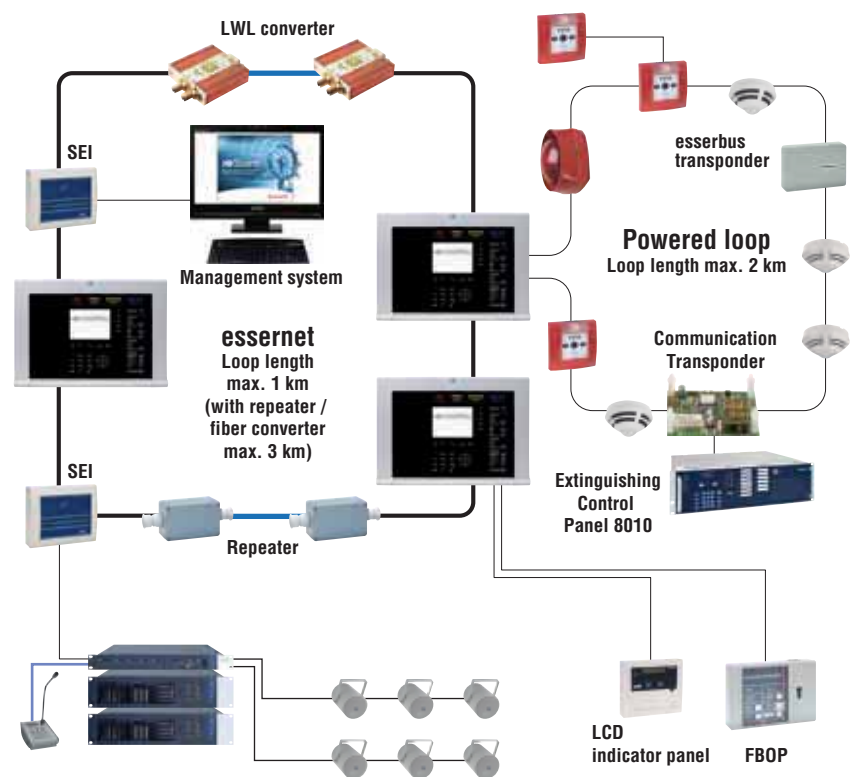
102-103

The essernet is a short circuit and open circuit resistant 2-wire backbone for networking fire detection and intrusion detection panels from the ESSER product range. The essernet permits both hierarchy-restricted and hierarchy-free programming of panels. The essernet has been tested and approved for the VdS. The hardware components are listed in the respective equipment approvals of the fire detection panels.

Up to 31 panels can be networked with each other in a ring loop. Superior functions and functions covering different panels can be programmed. The status of the entire system can be read off on anything from one to all panels as desired. Likewise, the system can be operated entirely from one panel.

Networking can be carried out via a simple telecommunication cable, e.g. IY-ST-Y 2 x 0.8 mm, with corresponding essernet module 62.5 kBd Part No. 784840.10 or using a data cable, e.g. IBM type 1 as well as CAT5 cable, with corresponding essernet module 500 kBd Part No. 784841.10. With the essernet repeaters, cable distances of up to 3000 m between two panels are possible. An optical waveguide fiber is possible with the converters, which are listed below.

Third-party or management systems (e.g. WINMAGplus) can be connected via the serial essernet interface.



Application example

784840.10



essernet module, 62.5 kBd



Network interface module for up to 16 network users (e.g. panels and/or SEI). Protocol: similar to DIN 19245 - 1 (Profibus). Topology: loop structure, short circuit and open circuit resistant.

Technical Data

Quiescent current @ 12 V DC
Cable
Cable length

approx. 150 mA
telecommunications cable I Y (St) Y n x 2 x 0.8 mm
1000 m (max. between 2 users)

784841.10



essernet module, 500 kBd



Same as 784840.10, but for a maximum of 31 network users (e.g. panels and/or SEI).

Technical Data

Quiescent current @ 12 V DC
Cable
Cable length

approx. 150 mA
IBM type 1,2,6 or similar (e.g. BELDEN 1634A)
1000 m (IBM Typ1 max. between 2 users), max. 400 m
when Cat3 cable or higher

784841.F0

**essernet module 500 kBd, France**

Same as 784841.10, but French version.

784844.10

**essernet switch****NEW**

The essernet changeover switch allows the uninterruptable redundant changeover between trunk and spare line, if the essernet data line is disturbed. The switch is powered through the fire alarm control panel.

Technical Data

Operating voltage	8 ... 24 V DC
Current consumption @ 12 V DC	approx. 60 mA
Ambient temperature	-10 °C ... 70 °C
Storage temperature	-20 °C ... 80 °C
Type of protection	IP 65
Housing	die-cast aluminium
Color	gray
Weight	approx. 730 g

784865

**essernet repeater, 62.5 kBd****Approval: VdS**

The essernet repeater increases the maximum distance between two FACP in the essernet by up to 1000 m. Standard telephone cables can be used as connection leads. Two repeaters can be operated in line.

Technical Data

Operating voltage	8 ... 18 V DC
Current consumption @ 12 V DC	approx. 100 mA
Quiescent current @ 12 V DC	approx. 100 mA
Ambient temperature	-10 °C ... 70 °C
Storage temperature	-20 °C ... 80 °C
Cable	telecommunications cable IY(St)Y n x 2 x 0.8 mm
Type of protection	IP 65
Housing	die-cast aluminum
Material	die-cast aluminum
Color	gray
Weight	approx. 520 g
Dimensions	W: 125 mm H: 60 mm D: 80 mm

784843

**essernet repeater, 500 kBd****Approval: VdS**

Same as 784865, but with 500 kBd baud rate. IBM type 1, type 2 or type 6 cables can be used as connection leads.

Technical Data

Operating voltage	8 ... 18 V DC
Current consumption @ 12 V DC	approx. 100 mA
Quiescent current @ 12 V DC	approx. 100 mA
Ambient temperature	-10 °C ... 70 °C
Storage temperature	-20 °C ... 80 °C
Cable	IBM-Typ 1, -Typ 2 or -Typ 6
Type of protection	IP65
Housing	die-cast aluminum
Material	die-cast aluminum
Color	gray
Weight	approx. 520 g
Dimensions	W: 125 mm H: 60 mm D: 80 mm



The corresponding Part No. 784841.10 essernet module must be ordered separately.

784763

**FO converter for essernet, multi-mode, F-ST male**

Fitted on locking device for C-rail mounting. Depending on the glass fiber used, distances of up to 3 km are possible. Suitable for 50/125 µm and 62.5/125 µm multi-mode fibers.

Technical Data

Operating voltage	9 ... 30 V DC
Current consumption @ 12 V DC	approx. 100 mA
Application temperature	-40 °C ... 85 °C
Storage temperature	-55 °C ... 125 °C
FO-Connector	F-ST
Type of protection	IP40
Weight	approx. 100 g

Features

- Two multi-mode fibers are required per network section.
- The fibers must be connected directly to each other (not via a multiplexer).
- Fiber optics type G50 / 125 µm = max. attenuation 6 dB corresponding to a length of approx. 2000 m
- Fiber type G62.5 / 125 µm = max. attenuation 9 dB corresponding to a length of approx. 3000 m.
- Up to 16 FOC connections per essernet network at a transfer rate of 62.5 kBd.
- Up to 31 connections per essernet network at a transfer rate of 500 kBd with LWL-converter from Index "A".



Prefabricated connecting cable included for connection to the essernet module in the FACP.

784764

**FO converter for essernet, multi-mode, F-SMA male**

Same as 784763, but with F-SMA male connection.

Technical Data

Operating voltage	9 ... 30 V DC
Current consumption @ 12 V DC	approx. 100 mA
Application temperature	-40 °C ... 85 °C
Storage temperature	-55 °C ... 125 °C
FO-Connector	F-SMA
Type of protection	IP40
Weight	approx. 100 g



Including prefabricated connection line for connection to the essernet module in the FACP.

784766

**FO converter for essernet, single-mode**

The fiber optic converter for essernet, required to connect two single-mode fibers, must be installed directly into the control panel's housing. This is done by mounting it directly to the top-hat rail without any further mounting fixtures.

Technical Data

Operating voltage	9 ... 30 V DC
Current consumption @ 12 V DC	approx. 70 mA
Current consumption @ 24 V DC	approx. 35 mA
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-10 °C ... 55 °C
Wavelength	1300 nm
FO-Connector	F-ST
Type of protection	IP40
Housing	aluminum
Material	aluminum
Mounting	mounting rail
Weight	approx. 200 g
Dimensions	W: 55 mm H: 24 mm D: 105 mm

Features

- Two mono-mode fibers are required per network section.
- The fibers must be connected directly without interruption (e.g. no connection via multiplexers permitted)
- Fiber type G9/125 µm
- max. permitted attenuation of 17 dB corresponds to a length of approx. 20 km or
- Fiber type G10/125 µm
- max. permitted attenuation of 17 dB corresponds to a length of approx. 20 km
- Up to 16 optical fiber paths per essernet network
- Possible with a transmission rate of 62.5 kBd
- Up to 31 optical fiber paths per essernet network are possible with a transmission rate of 500 kBd



Max. optical loss per FO-segment (20 km):
G9/125 µm: 17 dB, G10/125 µm: 17 dB

Accessories

788602 Top hat rail

788652 Mounting rail for FACP 8000 and IQ8Control

784855

**Serial essernet interface EDP, unidirectional****Features**

- Serial data rate 19.2 kBd
- RS 485 interface on-board for a max. length of 1,000 m

The serial essernet interface can be used as a gateway to link remote computers that support the ESSER data protocol (EDP). The EDP version (unidirectional) is only provided with information from the essernet, remote control is not possible. The unit includes a slot for an essernet module and is therefore a fully functional unit within the short circuit and open circuit resistant essernet.

Technical Data

Operating voltage	10.5 ... 28 V DC
Current consumption @ 12 V DC	approx. 60 mA
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-10 °C ... 50 °C



The essernet micromodule and the interface module are not included and must be ordered separately in accordance with the required essernet type and the serial transmission standard.

Accessories

788606	Housing kit
772386	Interface-module RS 232/V 24
772387	Interface-module TTY/CL 20 mA
784840.10	essernet micromodule (62.5 kBd)
784841.10	essernet micromodule (500 kBd)

784856

**Serial essernet interface EDP, bidirectional**

Same as 784855, but bidirectional with remote control options e.g. for the connection to a Building Management System (BMS)

Technical Data

Operating voltage	10.5 ... 28 V DC
Current consumption @ 12 V DC	approx. 60 mA
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-10 °C ... 50 °C

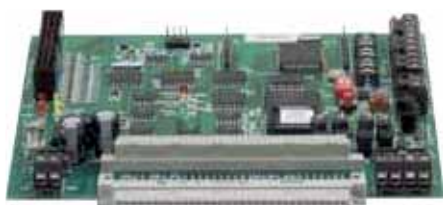


The essernet micromodule and the interface module are not included and must be ordered separately, depending on the type of essernet and the serial transmission mode.

Accessories

788606	Housing kit
772386	Interface module RS 232/24 V
772387	Interface module TTY/CL 20 mA
784840.10	essernet micromodule (62.5 kBd)
784841.10	essernet micromodule (500 kBd)

784859

**8000 FACP remote serial essernet interface****Features**

- RS 485 interface on board for a max. length of 1,000 m

The serial essernet interface is a router with internal RS 485 interface for interfacing an 8000 fire alarm panel over relatively large distances e.g. subnetworks. Information from the connected fire alarm panel is received via a router/router link and made available in the host essernet. The first SEI is connected as Master and the second SEI as Slave.

It has a slot for an essernet loop module and is thus an integral device in the short circuit and open circuit resistant essernet. For remote function, you can use the integrated RS 485 interface.



The essernet micromodule and the interface module are not included and must be ordered separately, depending on the type of essernet and the serial transmission mode.



770432 SEI setup

Accessories

788606	Housing kit
772386	Interface-module RS 232/V 24
772387	Interface-module TTY/CL 20 mA
784840.10	essernet micromodule (62.5 kBd)
784841.10	essernet micromodule (500 kBd)

583530

**Serial essernet interface (to connect VARIODYN D1)****NEW**

Serial essernet interface for connecting a VARIODYN D1 system to ESSER fire alarm systems. It has been optimized for the transmission speed and provides optimum comfort in programming, commissioning and service.

Technical Data

Operating voltage	10.5 ... 28 V DC
Current consumption @ 12 V DC	approx. 60 mA
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-10 °C ... 50 °C



The essernet micromodule and the interface module are not included and must be ordered separately, depending on the type of essernet and the serial transmission mode.



Available from Q2/2013

Accessories

788606	Housing kit
772386	Interface-module RS 232/V24
772387	Interface-module TTY/CL 20mA
784840.10	essernet micromodule (62.5kBd)
784841.10	essernet micromodule (500kBd)

Accessories

788606

**Housing kit**

Housing for the serial essernet interface.

Technical Data

Type of protection	IP31
Housing	ABS plastic
Color	white similar to RAL 9003, front blue similar to RAL 5003
Dimensions	W: 270 mm H: 221 mm D: 71 mm

772386

**Interface module RS 232/V 24**

For the serial essernet interface for a length up to 15 m.

772387

**Interface module TTY/CL 20 mA**

For the serial essernet interface for a length up to 1,000 m.

013405.10

**Hardware option TCP/IP converter, Ethernet RS 232/RS 485**

This hardware option is used to connect a remote essernet via a (for example) company-wide Ethernet LAN to a WINMAGplus control center via TCP/IP. This allows the device to be used as a protocol converter between the SEI contained on the essernet and the WINMAGplus control center available in the Ethernet LAN.

Technical Data

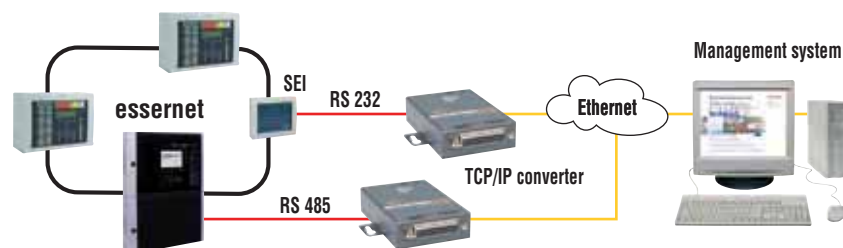
Operating voltage	9 ... 30 V DC
Ambient temperature	0 °C ... 60 °C
Storage temperature	-40 °C ... 85 °C
Type of protection	IP30
Housing	metal
Weight	approx. 200 g
Power consumption	1.5 W
Dimensions	W: 90 mm H: 64 mm D: 23 mm

Features

- Transmission with RS 232 max. length 15 m and with RS 485 max. length 1,000 m
- Serial interface: RS 232, RS 422 or RS 485 (2- and 4-wire), configurable via software
- Transmission speed: 300 baud to max. 230 kBaud configurable via software
- Serial connection: D-Sub 25, socket
- Ethernet interface: 10Base-T/100Base-TX
- Transmission speed: 10/100/auto Mbit, configurable via software
- Mode of transmission: half- /full-duplex or automatic, configurable via software
- Network access: RJ 45
- Supported protocol: ARP, UDP, TCP, ICMP, Telnet, TFTP, AutoIP, DHCP, HTTP, SNMP, TCP, UDP and Telnet, TFTP



System requirements for operation and software configuration: Windows® 2000/XP. Bidirectional or unidirectional data transfer depends on the SEI used, thus serial essernet interface EDP unidirectional Part No. 784855 or bidirectional Part No. 784856. Up to 20 TCP/IP converters can be connected per personal computer.





Gateway for protocol conversion of the essernet data protocol into different standard software protocols.

The multiprotocol gateways are a group of devices which have been specially optimized for the conversion of the essernet data protocol just into standard software protocols. The focus here is especially on communication with higher-priority building services management systems as well as with devices by other manufacturers. Device configuration is carried out based on one text file per protocol driver as well as one other text file which sets the connections between essernet object statuses to those of another protocol. This is advantageous as it allows for easy revision with small changes, especially when the naming conventions are adhered to in the target protocol. The basic configuration is created under specification of the target protocol by conversion of project data export of the programming software 'tools 8000' which results in a format that can be loaded by the gateway. The gateway is equipped with an access-restricted web user-interface with independent user management. This facilitates the upload of project data, remote diagnostics, status query of all data points and, if the corresponding ESSER modules used, switching via the gateway without additional software. Hardware with different performance levels is available for varying project requirements. Thus it is possible to choose the most cost-effective model according to the type of target protocol and number of connections required from the essernet data protocol into the selected target protocol.

Service for installers:

We offer a number of gateway services. These services cover everything from calculating data points to selecting suitable hardware, from creating loadable project planning for the gateways to designing project-specific macros, as well as on-site start-up. Gateway support training is offered once the gateways are installed. This training includes maintenance or expansion/reprogramming within the object, e.g. when a system has been expanded and the new data points need to be transmitted into the target protocol.

The training and support is done by the development and supplier of the gateways. For part numbers and prices please contact your sales representative.

Technical connection:

A serial essernet interface (uni-directional or bi-directional) as well as an RS 232/V 24 interface module is needed for the connection of the multiprotocol gateways to the essernet. If a FlexES FACP is used in the essernet it is possible to use the internal RS 485 interface for connection if the RS 485/RS 232 interface converter is also applied. Switching functions such as turning individual detectors or whole detector zones on and off are possible if the internal interface of the FlexES or a bi-directional SEI is used for the gateway connection. In addition to the driver for the essernet protocol, delivery includes one of the drivers listed on the order sheet at the end of the catalog in standard software protocols. The multiprotocol gateway is designed for 230 V.

Different gateway models currently available:

ESSER Data Protocol (EDP) to:

BACnet Server
 OPC Server
 MODBUS IP
 EIB/Instabus
 LONTalk

For some European countries, the MPG should be purchased directly from the supplier:

MBS GmbH
 Römerstrasse 15
 47809 Krefeld
 Germany
 Tel.: +49 2151 7294-0
 Fax: +49 2151 7294-50
 info@mbs-software.de

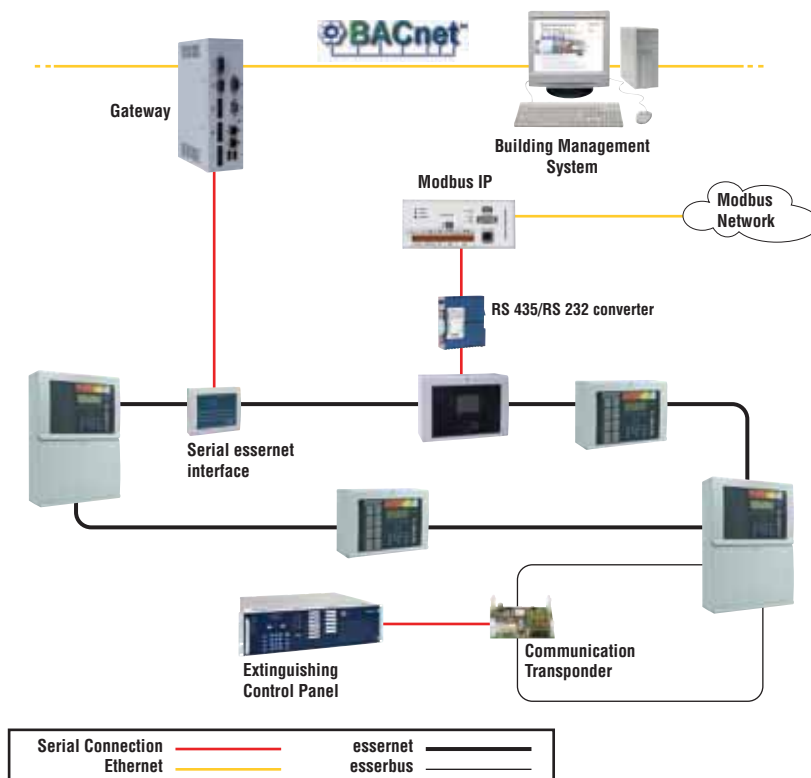


If a gateway is used for the EDP connection over an OPC server, the OPC-DCOM communication for the server component requires a networked PC with Windows XP or higher. This OPC server component is included in this gateway model.

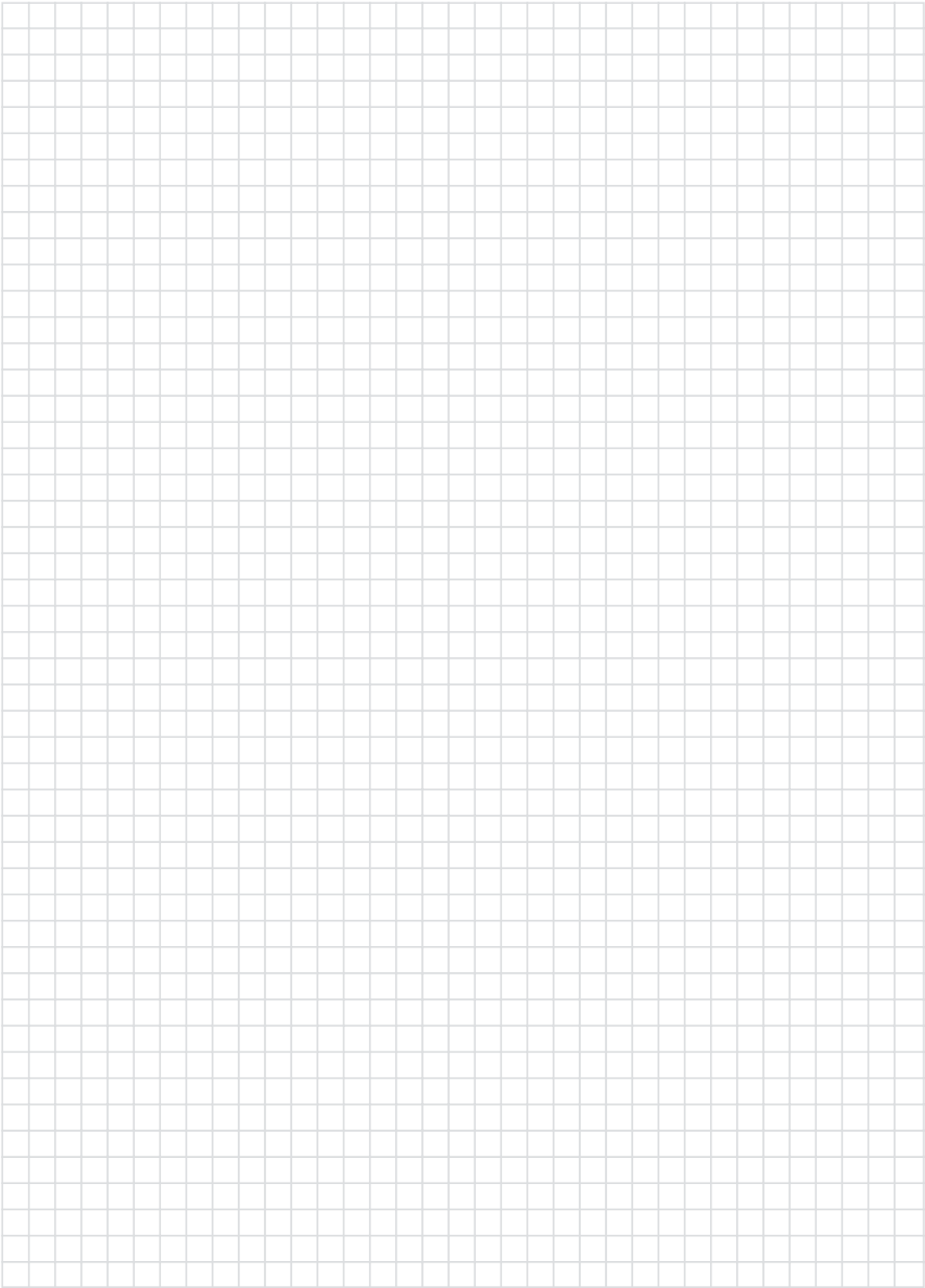
Additional hardware for the connection of the standard software protocol, as specified in the order, is included in the delivery of the respective gateway variant.

Accessories

- 784855 Serial essernet interface EDP (unidirectional)
- 784856 Serial essernet interface EDP (bidirectional)
- 772386 Interface module RS 232/V 24
- 788606 Housing kit



Application example





Management Systems

FlexES Guard	106-120
WINMAGplus	121-132
WINMAGLite	133
Difference between WINMAGLite and WINMAGplus	134



Features

- Separate client/server architecture with central update functionality
- Operating system-independent client function depending on drivers (plug-ins)
- Modular construction with open system architecture
- Workstation client and/or Web client
- Identical user interface for desktop and Web clients
- Separate editing modules for individual clients
- Display of system status with graphics, text, table, Web, or video view
- Multi-monitor operation with up to 9 monitors (max. 4 physical, 5 virtual)
- Alternatively: 1 physical, 8 virtual
- Server-based connection to devices
- Logging of all messages, interactions, and processes
- Initial SQL database H2, extensible to SQL Server, Oracle, DB2
- Integrated adoption of data structures and graphics from external systems
- Support for multiprocessor systems
- Multiprocessing/multithreaded architecture

FlexES Guard – The management system for intelligent security

The newly developed FlexES Guard hazard and alarm management system is based on Java™ and thus provides an ideal basis for a platform-independent message visualization system. Any data can be accessed from any location from different mobile devices (PC, tablet, smartphone). Integrated permission management allows customized views and functionality for different users. An additional feature enables client access via the web browser: Each user has the option to start the client either in the web browser or as a desktop program, for example if a multi-monitor view is desired. Through automatic adjustment of the software version between server and clients, all participants on the network are always using the same version. Moreover, all functions are available to their full extent regardless of the way the program is started (browser or desktop). The new program structure provides its various functionalities in three different software modules:

The control console: This is the application with which the user works.

The configuration module: This is where all system administration is carried out, from user and permission administration, to driver and data point management, to licensing and client administration.

The graphical editor client: This module is used to set up the application for the control console. This is where graphics and alarm points are placed, programs integrated, layers created for the different operating levels, and all the functional graphical elements set up that are needed to operate the control console.

The advantage of this organization is that both the configuration module and the editor client can not only be started in standard web browsers like Microsoft Internet Explorer or Mozilla Firefox, but also used with full functionality. A web browser, an installed Java runtime, and a TCP/IP connection are enough to use a client computer to manage the server and make changes to the application. Control of access is entirely handled by the server. It is also possible to make most changes to the application as well as carrying out administrative tasks while the FlexES Guard is online, reducing downtime and significantly increasing system availability.

Interfaces

FlexES Guard offers a continually growing portfolio of proprietary interfaces for systems in the areas of fire and burglar alarm systems, voice alarm, call systems, access control, and video technology.

In addition to the OPC and ESPA standard interfaces, BACnet, Modbus, and SNMP will soon be available. This means that not only bidirectional coupling with the building services management system and process and automation technology are possible, but data exchange with communication systems will also be possible.

To integrate data provided by external databases, FlexES Guard has its own connector that permits simple, reliable access to this data.

Service program

We offer an extensive service program related to FlexES Guard for installers, which in addition to a FlexES Guard project also offers appropriate support in the different phases of implementation. Services range from system presentation to customers to support in requirements definition, input of alarm points and graphics pages, as well as program support and even the training of operating personnel and support during the system handoff/acceptance. Support for maintenance and extension of existing systems completes the service program.



Hardware and software requirements:

Intel Dual Core or better, at least 4 GB RAM, at least 150 GB free hard drive space, XGA graphics card with at least 4 MB video memory, monitor with at least 1024x768 pixels, sound card with external speakers, compatible with XP Professional (SP3) 32-bit version, Windows Server 2008 32-/64-bit versions, Windows 7 32-/64-bit versions, additional operating systems for the operation of the FlexES Guard client upon request, Java Runtime 6, Internet Explorer version 7 or better, Mozilla Firefox version 16 or better.

To order FlexES Guard and/or additional license options, please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Your technical sales consultant is available for any additional information.

FlexES Guard

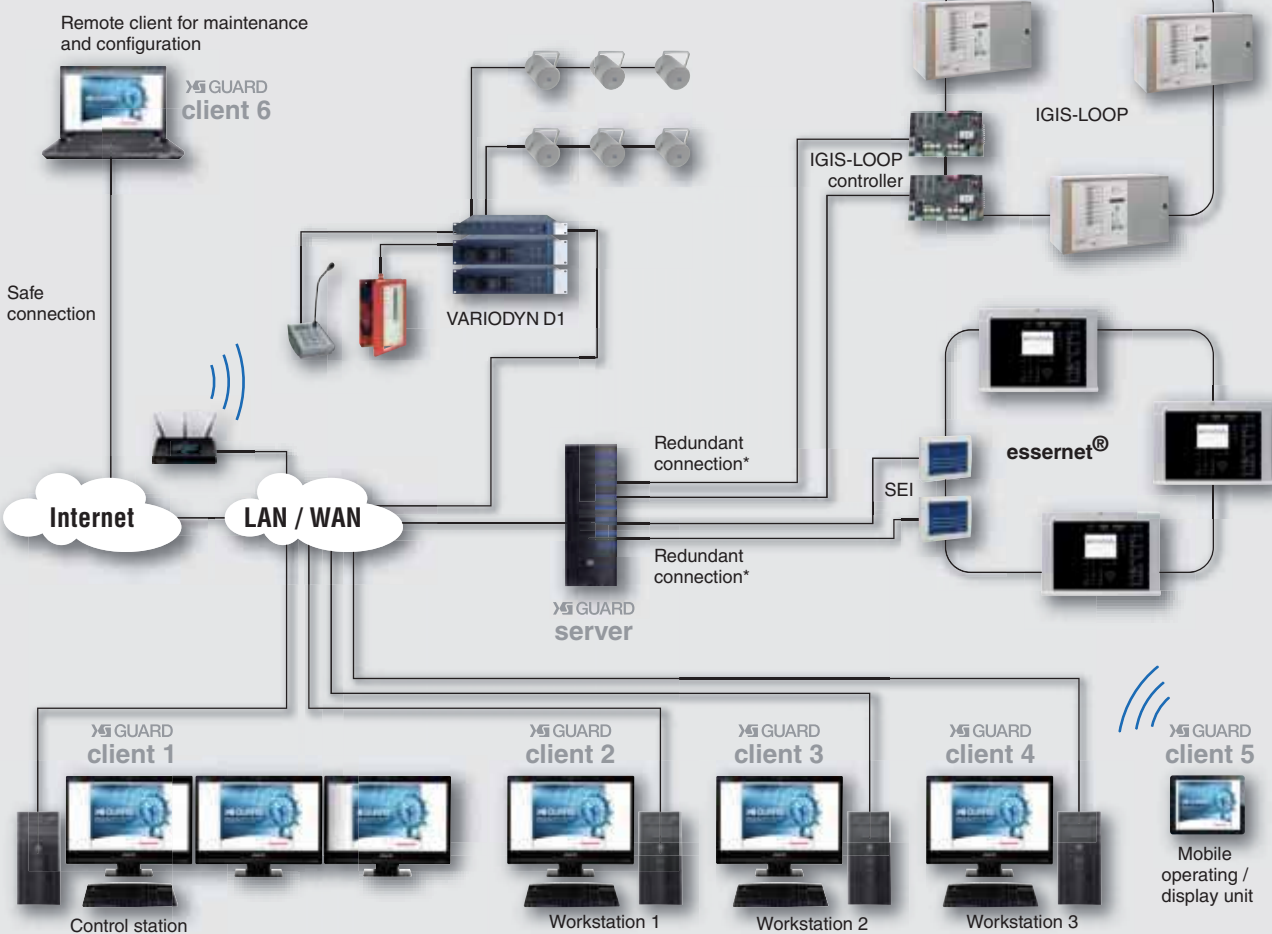
1.

FlexES Guard small installation



2.

FlexES Guard large installation



*Redundant serial driver coupling requires probably additional hardware. The distribution of the interfaces to a second PC (interface server) is also possible.

Basic Licenses

The FlexES Guard hazard and alarm management system uses a pure software licensing procedure to enable the functions of the base system, the extensions, and the drivers and their data points. Licenses are managed centrally on the server and are connected to its hardware using a machine code (serial number). Specification of the serial number is thus absolutely essential when ordering licenses for the initial installation and any upgrades. The installation and test operation of the software package (Part No. MX50000) can also take place without licensing. In unlicensed operation, the configuration and the graphical editor module can be used as often as needed to create applications. Control console test mode is limited to one hour of server runtime. After this, the FlexES Guard server must be stopped and restarted.

FlexES Guard must be ordered using Part No. MX50050 license package FlexES Guard and MX50055 license package upgrade.



Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.



The software license code for the FlexES Guard (MX50050) license package as well as the FlexES Guard upgrade (MX50055) are delivered on a USB stick.



MX50000



FlexES Guard box (unlicensed)

NEW

DVD with the FlexES Guard hazard and alarm management system, without license, compatible with XP Professional (SP3) 32-bit version, Windows Server 2008 32-/64-bit versions, Windows 7 32-/64-bit versions.

By using the FlexES Guard software and the corresponding licenses for extensions, along with drivers and data point packages, messages from hazard alarm systems can be displayed and managed via a PC on different terminal devices regardless of location. At the same time, operating activities are also possible. Moreover, FlexES Guard fully supports the function of electronic emergency plans.



For licensing, a hardware code (serial number) must be generated on the PC where the server will be operated, using the configuration module. From that code, in combination with the software options specified in the Serial-Key-Generator (SKG) "MX50050 FlexES Guard license package", a license file to enable the software is generated that must be downloaded into the server using the configuration module.

MX50100

**Server license****NEW**

The server license is used to enable the FlexES Guard hazard and alarm management system server as an unlimited visualization and operating software package. To operate the client software as a control console on the server hardware, as well as from any point in the same LAN/WAN as the server, at least one client license is required. To connect subsystems (such as centrals) to the server, additional licenses are required (see driver, Part No. MX53000-MX53710.DP).



Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.



USB stick with license file

MX50250

**Single client license****NEW**

Option for FlexES Guard server license. Permits the simultaneous operation of a control console client software on the FlexES Guard server. It can optionally be determined whether the client can only be started from certain hardware or from any arbitrary PC on the network, for example from web browsers. If the control console client and server are operated on just one machine, then in addition to the server license at least one client license is required.

This item is required for each client used.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX50255

**Client license package, 5 licenses****NEW**

Option for FlexES Guard server license. Permits the simultaneous operation of 5 control console client licenses on the FlexES Guard server. It can optionally be determined whether the client can only be started from certain hardware or from any arbitrary PC on the network, for example from web browsers.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX50260

**Client license package, 10 licenses****NEW**

Option for FlexES Guard server license. Permits the simultaneous operation of 10 control console client licenses on the FlexES Guard server. It can optionally be determined whether the client can only be started from certain hardware or from any arbitrary PC on the network, for example from web browsers.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX50270

**Client license package, 20 licenses****NEW**

Option for FlexES Guard server license. Permits the simultaneous operation of 20 control console client licenses on the FlexES Guard server. It can optionally be determined whether the client can only be started from certain hardware or from any arbitrary PC on the network, for example from web browsers.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Licenses for Special Versions

MX50410

**FlexES Guard Gateway****NEW**

The FlexES Guard Gateway license authorizes operation of the server without graphical visualization. This permits alarm point information from connected systems (e.g. ESSER Fire Detection Technology) to be prepared for higher-level control systems using OPC and ESPA.

To operate the FlexES Guard Gateway, in addition to a trades license plus data point packages (e.g. MX53000 + MX53000.DP), only the corresponding data point packages for the OPC server and/or ESPA are needed. The graphical editor module is not available for this software license and the control console cannot be started as a graphical user interface. Functions such as setup, logging, and the display of status and operation of alarm points for testing, setup, and maintenance are provided through the configuration module.



This license can only be used in combination with part number MX53700.DP data point package for OPC server and/or MX53620.DP data point package for ESPA. For additional data point packages for an existing gateway, please use the Serial-Key-Generator (SKG) MX50055 FlexES Guard upgrade. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Extensions

MX51000



Multi-Client Capability

NEW

Extension to the FlexES Guard server license that makes it possible to structure the system for use by multiple clients. Each of these clients may have multiple users with custom screens and permissions. Client capability ensures that FlexES Guard can be operated by different user groups (such as different customers) without giving them the ability to see one another's data.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX51100



Multi-Monitor

NEW

Extension to the FlexES Guard server license for system-wide enabling of multi-monitor client workstations. This makes it possible to output the content of 9 possible monitors per PC on up to 4 physical monitors with different displays. If the physical monitors defined for the user are not available (for example if the client has been started from a web browser), the displays are automatically redirected to virtual screens that can then be selected by tab.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension. The PC hardware needed for four-monitor operation must be ordered separately.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX51200



Notification

NEW

Extension to the FlexES Guard server license for the sending and receipt of email and SMS messages as well as notification by fax with graphics. Sending email also makes it possible to send file attachments (e.g. alarm graphics). The receipt of SMS messages and emails can be routed to the alarm queue. It is possible to evaluate the content of incoming messages and start customizable workflows.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension. The hardware needed to send SMS messages and faxes must be ordered separately. To use email notification, the use of an email server by SMTP and IMAP/POP3 protocol must be possible from the FlexES Guard server.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX51400



Driver Redundancy

NEW

Extension to the FlexES Guard server license for system-wide enabling of driver redundancy. Driver redundancy makes it possible to establish both the existing connection to a subsystem (e.g. essernet®) and a second, independent, monitored connection to the subsystem (e.g. using a second SEI in essernet®). If there is a connection problem with one of the two connections, the redundant connection takes over communication and an error message is emitted. This extension provides a simple way to achieve a significant increase in failure protection of the connection, especially for serially connected systems.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension. The hardware needed to duplicate the connection to subsystems (such as an additional SEI) must be ordered separately.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX51600

**User interface Windows authentication****NEW**

Extension to the FlexES Guard server license that makes it possible to use the user names and passwords from the Windows network to log into the FlexES Guard hazard and alarm management system. This means that administrators of FlexES Guard no longer need to manage users with separate passwords in FlexES Guard. Windows network users must simply be set up in FlexES Guard. Authentication then takes place using Windows network mechanisms. The advantage of such a login is the lower administrative overhead for login and password information of the users of FlexES Guard and the fact that any existing password guidelines already in place for the Windows network are automatically obeyed.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension. This extension requires corresponding permissions to be granted for Active Directory user authentication in the IT environment of the FlexES Guard server. To set up this extension, IT knowledge of Directory Services is required.
Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Driver

MX53000



Driver for ESSER fire detection technology

NEW

Features

- FACP: delayed, active/inactive, reset, audible on/off, alarm verification, reset, set time
- FACP detector zone: turn on/off, turn O, I, T sensors on/off, test on/off, on/off
- FACP detector zone (detectors, primary line): turn on/off, turn sensor on/off, test on/off, on/off
- FACP control group: turn on/off, test on/off, audible signal generators, ARE, transmission equipment: Turn on/off
- FACP: turn on, buzzer off, reset,
- All FACP: audible alarm on/off, read configuration

This driver for the FlexES Guard server permits the use of ESSER FACP in essernet. It automatically creates new alarm points in the FlexES Guard database that can be displayed using filter functions.

The driver supports the ESSER FACP series 8000x, IQ8C/M and FlexES via essernet. The essernet interface with micromodule is needed to do so. (Part No. 784856).

This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53000.DP



Data points for ESSER fire detection technology, 500 data points

NEW

Data point package for the ESSER fire detection technology interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 500 data points.

This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53100



ESSER I-CIE 5008 interface driver

NEW

Features

- I-CIE: buzzer off, remote programming enabled, I-CIE power supply/FB8, unblock transponder, turn I-CIE printer on/off
- Enable I-CIE area, internal/external armed/disarmed, walk test, delete, delete installer, query actuation
- I-CIE control and detector zone: turn on/off, unblock

This driver for the FlexES Guard server permits the use of ESSER I-CIE FACP in essernet. This driver automatically creates new alarm points in the FlexES Guard database that can be displayed using filter functions.

This driver supports the ESSER 5008 intrusion alarm system through essernet. The essernet interface with micromodule is needed to do so. (Part No. 784856).

This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53100.DP



Driver ESSER intruder alarm panel 5008, 500 data points

NEW


Data point package for the ESSER 5008 I-CIE interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 500 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53110



Driver IGIS MB/HB series

NEW


This driver for the FlexES Guard server permits the use of I-CIE centrals in the IGIS LOOP network. Alarm points can be created by using an import function in the FlexES Guard database.

This driver supports the Honeywell HB/MB series intrusion alarm system through IGIS loop with a monitored RS232 connection.

The IGIS loop Controller is also needed (Part No. 013330.10, 013331.10, 013332.10).



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- I-CIE: buzzer off, remote programming enabled, I-CIE power supply/transponder: unblock, turn I-CIE printer on/off,
- I-CIE area: enable, internal/external armed/disarmed, walk test, delete, delete installer, query actuation,
- I-CIE control and detector zone: turn on/off, unblock

MX53110.DP



Data points for IGIS MB/HB series, 500 data points

NEW


Data point package for the IGIS MB/HB series interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 500 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53200



Driver VARIODYN D1

NEW


This driver for the FlexES Guard server permits the connection of ESSER/Honeywell VARIODYN D1 voice alarm systems via TCP/IP. This driver can read the device configuration of the VARIODYN D1 network for commissioning and automatically write it to the equipment configuration of FlexES Guard. To do this, a free port is required on the DOM of the VARIODYN D1 system.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- Reading the VARIODYN® D1 configuration
- Trigger calls
- Display of faults
- Display of line statuses
- Read and write controls
- Display of inputs
- Playing SCU sound files

MX53200.DP

**Data points for VARIODYN D1, 100 data points****NEW**

Data point package for the SAA VARIODYN® D1 interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53300

**Driver IPC - Ackermann ILC****NEW**

This driver for the FlexES Guard server permits the use of Ackermann call systems. This driver supports the Clino 99 system through the IPC module.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- Display of different call types, such as medical services, emergency call, nurse call, fire alarm
- Triggering of calls from the screen

MX53300.DP

**Data points IPC - Ackermann ILC, 100 data points****NEW**

Data point package for the IPC Ackermann ILC interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53400

**Driver Geutebrück Reporter/Geviscope****NEW**

This driver for the FlexES Guard server permits the connection of the Geutebrück Video-technik Reporter/Geviscope. It automatically creates new alarm points in the FlexES Guard database that can be displayed using filter functions.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard Upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- Switch camera to monitor
- Faults
- Status monitor
- Zoom, pivot
- Fixed positions for each camera

MX53400.DP

**Data points for Geutebrück Reporter/Geviscope, 100 data points****NEW**

Data point package for the Geutebrück Reporter/Geviscope interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard Upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53410

**Driver Milestone CCTV****NEW**

This driver for the FlexES Guard server permits the connection of Milestone CCTV products. It automatically creates new alarm points in the FlexES Guard database that can be displayed using filter functions.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- Switch camera to monitor
- Display of faults
- Status monitor
- Zoom, pivot, and fixed positions for each camera.

MX53410.DP

**Data point package for Milestone CCTV system, 100 data points****NEW**

Data point package for the Milestone CCTV system interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53420

**Driver Mobotix IP camera****NEW**

This driver for the FlexES Guard server permits the use of Mobotix IP Cameras in FlexES Guard. If the protocol and hardware connected support this, it automatically creates new alarm points in the FlexES Guard database that can be displayed using filter functions.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- Display of faults
- Zoom, pivot, and fixed positions for each camera
- Start recording
- Turn camera on/off

MX53420.DP

**Data points for Mobotix IP camera, 100 data points****NEW**

Data point package for the Mobotix IP Camera interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.

This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53440

**Driver Funkwerk/Plettac****NEW**

This driver for the FlexES Guard server permits the use of Funkwerk/Plettac in FlexES Guard. Alarm points can be created by using an import function in the FlexES Guard database.

This driver supports all Funkwerk/Plettac products with the host protocol.

This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Available from 03/2013

Features

- Switch camera to monitor
- Display of faults
- Status monitor
- Zoom, pivot, and fixed positions for each camera

MX53440.DP

**Data points for Funkwerk/Plettac, 100 data points****NEW**

Data point package for the Funkwerk/Plettac interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.

This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Available from 03/2013

MX53510

**Driver ZK primeWebSystems****NEW**

This driver for the FlexES Guard server permits the use of PRIMION Prime Web access control in FlexES Guard. This driver automatically creates new alarm points in the FlexES Guard database that can be displayed using filter functions.

This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- Display of status of inputs/outputs
- Blocking of readers
- Status display of readers/centrals
- Permanent opening and temporary opening of doors

MX53510.DP

**Data points for ZK primeWebSystems, 100 data points****NEW**

Data point package for the ZK primeWebSystems interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53600

**Driver TDM/ASCOT emergency call system****NEW**

This driver for the FlexES Guard server permits the use of TDM/ASCOT emergency call systems.

This driver supports ASCOT emergency call systems using the CTI and SNMP interface.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.



Available from 03/2013

Features

- Establishing voice connections
- Display of faults and alarms

MX53600.DP

**Data points for TDM/ASCOT emergency call system, 100 data points****NEW**

Data point package for the TDM/ASCOT emergency call system interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.



Available from 03/2013

MX53610

**Driver RWT bus controller 925****NEW**

This driver for the FlexES Guard server permits the use of escape route systems in FlexES Guard.

This driver automatically creates new alarm points in the FlexES Guard database that can be displayed using filter functions.

This driver supports Assa Abloy Bus Controller 925 products



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- Locking/permanent opening and temporary opening of doors
- Status indicators for doors
- Fault display for doors and centrals

MX53610.DP

**NEW****Data points for the RWT bus controller 925, 100 data points**

Data point package for the RWT Bus Controller 925 interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53620

**NEW****Driver ESPA terminal devices**

This driver for the FlexES Guard server permits the use of the ESPA 4.4.4 protocol to distribute messages to mobile devices like pagers and DECT telephones. The serial or Ethernet TCP/IP interfaces can optionally be used to connect to it.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- Sending text messages
- Receiving of messages with the freely programmable alarm assignment provided by Goovy

MX53620.DP

**NEW****Data points for ESPA terminal devices, 10 data points**

Data point package for the ESPA terminal device interface driver. FlexES Guard counts the ESPA connections used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 10 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53699

**NEW****Driver for external systems**

This driver for the FlexES Guard server permits the use of external systems in FlexES Guard. Depending on the protocol, the driver automatically creates new alarm points in the FlexES Guard database that can be displayed using filter functions. This driver supports external products whose protocol can be emulated using customer-specific programming of the interface SDK. The customer-specific Programmer's Guide is not part of the driver and must be offered separately according to cost.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

Features

- Definition according to customer requirements in the specifications

MX53699.DP

**NEW****Data points for external systems, 100 data points**

Data point package for the external system interface driver. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 100 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53700

**Driver OPC server****NEW**

This driver for the FlexES Guard server permits the use of OPC servers to forward data to external systems.

This driver supports the OPC protocols Data Access 1.0, Data Access 2.04, Data Access 2.05, Data Access 3.0, and Alarm & Event 1.0.

Information about the object and data types supported as well as about setting up the OPC client can be found in the additional documentation. If you have further queries about the product, please contact our TSC.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53700.DP

**Data points for OPC server, 500 data points****NEW**

Data point package for the OPC server. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 500 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53710

**Driver OPC client****NEW**

This driver for the FlexES Guard server permits the use of the OPC client to receive data from external systems.

This driver supports the OPC protocols Data Access 1.0/2.04/2.05/3.0 and Alarm Event 1.0. Information about the object and data types supported as well as about setting up the OPC server can be found in the additional documentation. If you have further queries about the product, please contact our TSC.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.

MX53710.DP

**Data points for OPC client, 500 points****NEW**

Data point package for the OPC client. FlexES Guard counts the data points used in the driver and in the database. To do this, the software must be enabled with the drivers and the number of data points. Licensing is done in steps of 500 data points.



This license can also be purchased separately as an extension to an existing FlexES Guard system. The MX50055 FlexES Guard upgrade Serial-Key-Generator (SKG) must be used to do so. The serial number (machine code) of the system must be specified for each extension.

Please use the FlexES Guard Serial-Key-Generator (SKG) available in the customer area at www.esser-systems.com.



Features

- Compatible with Windows XP Professional SP2, Windows of 2003 servers and Windows Vista
- Modular construction and freely programmable
- Direct control of the network devices
- List of measures to be taken for fire-fighting forces
- Individual allocation of usage rights incl. priority scheduling
- Integrated simulation-functions
- Extensive recording of events and operations
- Visualization of messages
- Up to 12 active graphics simultaneously representable
- Integration of video sequences possible
- Information output via Windows print manager to multiple printers etc.
- Time program/calendar function
- Integrated database standard
- Activation of other programs from WINMAGplus possible
- Efficient programming language (SIAS) for customer-specific adjustment of interface and processes in case of alarm
- Remote control possible via modem (optional)
- 10 printers per workstation possible
- Multiple monitors can be used. 4 of 8 screens may be selected.

Windows management system for hazard detection systems

WINMAGplus has been specially developed to meet the requirements of managing and integrating hazard detection systems on a single PC platform. WINMAGplus simultaneously manages and displays graphically a number of security applications, using a common user interface including: fire detection technology; voice alarm public address; intrusion detection technology; access control technology; video technology; rescue route technology/escape door control, personnel protection systems and locating systems as well as fence monitoring systems. Apart from security systems, a multitude of building management control systems such as lighting, elevator control and fault detection systems as well as door/gate/barrier control systems can be managed and graphically displayed.

Database and user interface are designed in line with current standards: messages are displayed both graphically and in text format. WINMAGplus offers various application options, ranging from clearly displayed messages to active control of all detection devices. Based on our security networks IGIS-Loop and essernet, WINMAGplus is not only a highly professional system but also the best possible integrated visual data and management solution.

Program:

Thanks to its modular design, WINMAGplus offers suitable software for systems of any size and type of application, ranging from WINMAGplus basic package for single-station systems with one subsection being connected to the WINMAGplus multi-station system with multiple subsections being connected. Licensing enables the program options purchased and it legitimizes program use. A dongle is purchased together with a license. The dongle must be plugged into a parallel interface or into a USB port of the WINMAGplus computer. For multi-station systems, every computer that is networked must be equipped with a dongle. Workstations that are not networked do not need a dongle. The license is for one version level (until version 7). When upgrading from versions older than V6.0 to V10.0 or later, you will automatically receive a dongle. If the dongle is removed during operation, WINMAGplus runs for up to 72 hours in online mode.

Our services for installers:

Our WINMAGplus services include everything from entering alarm points to generating diagrams. First of all, operators are made familiar with WINMAGplus. Then we work out the specifications together with the customer and develop SIAS programs. We design complete application packages and train your personnel. Until final acceptance, we offer support for all installation processes and assist you during daily operation via a remote maintenance tool if required.

Interfaces, drivers:

Besides our security system drivers included in our product catalog, we offer a variety of drivers for all kinds of trades and manufacturers. Due to the ever-growing number of drivers, the current list of drivers can be requested when required. If the driver you need is not available, we will develop a driver geared to your requirements. Alternatively, all instruments can be connected via the standard OPC interface. This is an international standard, which is supported by a multitude of manufacturers regardless of their product lines. For developing your own drivers, we can provide you with the connection server and a developer's package. Custom WINMAGplus drivers can thus be created.



Hardware and software requirements:

Pentium 3 GHz or higher, minimum 512 MB RAM, minimum 1 GB of hard disk space, XGA graphics card with minimum 4 MB video memory, monitor with min. 1024x768 pixels, sound card with external speakers, Windows XP Professional SP 2 and Windows 2003 Server, Internet Explorer version 6.0 or higher.

To order WINMAGplus licenses, please use the order form on www.esser-systems.com.

013610

**Control center software CD WINMAGplus basic kit**

WINMAGplus control center software CD for hazard detection systems, license not included, compatible Windows XP Professional (SP3) 32-Bit version, Windows Server 2003 32-/64-bit - also on next line, Windows Vista 32-/64-Bit version and Windows Server 2008 32-/64-Bit version. With the aid of this basic software and the corresponding licenses, hazard detection systems can be operated and managed via PC. Hazard reports are indicated in text form and graphically. In this way, the PC can also be used as an electronic emergency control point. As of WINMAG version 10, this version can be used as an upgrade (only for existing WINMAG versions 6 or older).



For demonstration purposes only, the WINMAGplus basic version operates without a license as a full version for a total of twenty 8-hour days, after which the program switches to offline mode. After the test period runs out, all connections to all components are cut off. Starting in offline mode does not reduce the number of test runs. The demo mode is a full-function editing environment. All components function except the online communication. Each process can also be tested in demo mode through simulation and all editing functions can be used.

Please use order form on www.esser-systems.com.

You can also download this software free of charge from our protected download area at www.esser-systems.com.

Basic Licenses

013631

**Basic license for WINMAGplus USB port**

This basic license is used to activate the basic software package/demo version to operate as unrestricted visualizing software for server workstations and for network clients. For interfacing control panels to server workstations, further licenses are required (see Part No. 013601 – 013606, 013608, 013611, 013613, 013625).



Please use order form on www.esser-systems.com.



Dongle for USB port

Upgrade Packages

013616

**WINMAG upgrade to WINMAGplus**

Upgrade of a WINMAG installation from version 6 to the newest WINMAGplus control center software.

For updating WINMAG V1 - 5 please use Part No. 013617 on the order form.



Please use order form on www.esser-systems.com.



License disk

013617

**WINMAG installation upgrade as of version 6****WINMAG installation upgrade to the most recent WINMAGplus control center software version**

WINMAG installation upgrade to the most recent WINMAGplus control center software version
An existing WINMAG as of version 6 can be upgraded to the most recent WINMAGplus control center software version. For each installation with dongle (each connected PC) an upgrade version must be ordered separately.



Please use order form on www.esser-systems.com.

013645

**WINMAG replacement dongle (USB instead of parallel)**

Upgrade of basic software WINMAGplus. As a consequence of hardware exchange, the parallel dongle needs to be replaced by a USB dongle.



This license may be ordered separately (subsequently) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. The license is used for connection of the Honeywell intrusion detection systems MB/HB, 5008. Please use order form on www.esser-systems.com.

Extension Licenses

013609

**WINMAGplus control center software - subsequent upgrade**

This order number serves as an auxiliary number for a subsequent optional extension or (e.g. additional client or subsequent connection of video systems) to an existing WINMAG installation from V 6.0. to V10 and WINMAGplus. The appropriate licenses must be ordered separately. The dongle need not be submitted.

**Note on license requirements:**

In each case only one license is necessary in order to connect an unlimited number of control panels to a PC. These licenses may be separately (subsequently) ordered only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be indicated. Please use order form on www.esser-systems.com.

013601

**WINMAGplus license - intrusion detection technology**

License option for WINMAG/WINMAGplus basic software. Required if intrusion detection systems are connected to WINMAG.




This license may be ordered separately (subsequently) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. The license is used for connection of the Honeywell intrusion detection systems MB/HB, 5008.

Please use order form on www.esser-systems.com.

013626

**WINMAGplus license - fire detection technology**

License option for WINMAG/WINMAGplus basic software. Required if fire detection systems are connected to WINMAG.


 This license may be ordered separately (as subsequent optional upgrade) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. The license is used for connection of the IQ8Control, system 8000 1024 and 1016 fire detection systems.

Please use order form on www.esser-systems.com.

013603

**WINMAGplus license - access control**

License option for WINMAG/WINMAGplus basic software. Required if access control system devices are to be connected to WINMAG (e.g. ACS 2 and ACS 8). MultiAccess and/or IQ MultiAccess software package is also required.

 This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. The license is used for the connection of the Honeywell ACS and (IQ) MultiAccess access control systems.


Please use order form on www.esser-systems.com.

013605

**WINMAGplus license - rescue route technology/escape door control**

License option for WINMAG/WINMAGplus basic software. Required if rescue route technology/escape door control equipment (only Honeywell Security) must be operated via WINMAG.

The status of escape doors is graphically displayed.


 This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. The license is used for connecting Honeywell rescue route technology/escape door control equipment.

Please use order form on www.esser-systems.com.

013623

**WINMAGplus license - interfacing DEZ 9000**


Option for connecting the DEZ 9000 remote control unit to the WINMAG/WINMAGplus system. The connection also enables the installation of applications working on the basis of VdS- 2465 transmission protocols to the WINMAG system.

 Please use order form on www.esser-systems.com.

013608

**WINMAGplus license - RTD**

License option for WINMAG/WINMAGplus basic license. Enables operation of WINMAG via modem, using DS 7600 and DGA 2400 to ESSER IDT (HB and MB series) and fire detection systems (1024 series).


 This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

013654

**WINMAGplus license – CMSI**

License for WINMAG/WINMAGplus basic software for the French market.

 This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

013604

**WINMAGplus license - video technology**

License option for WINMAG/WiINMAGplus basic software. Required if video technology equipment must be operated via WINMAG. The crossbars can execute such commands as pan, zoom, tilt, select monitor etc., depending on the model. The following video crossbars are currently supported: Ernitec M 500 and M 1000; Honeywell MaxPRO 32; Philips LTC 8x00; Fusion series II / III; Geutebrück Vicrosoft; Geutebrück Multiscope; Honeywell Fusion; contact your supplier for additional brands.



This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

013619

**WINMAG license HeiTel video connection**

License option for WINMAG/WINMAGplus basic software. Required if HeiTel video systems are to be connected to WINMAG.



This license may be ordered separately (subsequently) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. The license is used for connection of the Honeywell intrusion detection systems MB/HB, 5008.

Please use order form on www.esser-systems.com.

013629

**WINMAGplus license - Geutebrück**

License option for WINMAG/WINMAGplus basic software. Required if Geutebrück video systems are to be connected to WINMAG.



This license may be ordered separately (subsequently) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. The license is used for connection of the Honeywell intrusion detection systems MB/HB, 5008.

Please use order form on www.esser-systems.com.

013632

**License Dallmeier video**

Option to WINMAGplus basic license. WINMAGplus video technology equipment to be operated by Dallmeier.



This license can be purchased separately (as later option extension) only in connection with the auxiliary item Part No. 013609. The update number of the basic license must be specified.

013656

**WINMAGplus license nurse call systems**

Optional for WINMAGplus basic software. Required if it must be connected to WINMAGplus call system devices (e.g. Clino Systevo) over the IPC control.



This license may be ordered separately (subsequently) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. The license is used for connection of the Honeywell intrusion detection systems MB/HB, 5008.

Please use order form on www.esser-systems.com.

Connection Server

013606

**WINMAGplus license connection server**

License option for WINMAG/WINMAGplus basic software. Connection Server is a software module that enables the connection of a 3rd party device to WINMAG. Connection Server offers a convenient interface with which data and control commands can be exchanged bi-directionally in detection point format using WINMAG.



This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

013607



Connection server developers kit



This developers kit can be used to program WINMAG/WINMAGplus connections to third party devices. The package contains the connection server developers kit including full documentation plus a one-day training session in Albstadt (Germany).



Please use order form on www.esser-systems.com.



Dongle for USB port and license disk

OPC

013590



Universal gateway for PC (software)



Gateway software as a standalone solution for the allocation of data points on host control center systems via OPC, ESPA 4.4.4.



Hardware and software requirements:
Pentium 3 GHz or higher, min. 512 MB RAM , min. 1 GB hard disk, XGA graphics card with min. 4 MB video memory, monitor with 1024 x 768 pixels or more, sound card with external speakers, Windows XP Professional SP2 and Windows 2003 Server, Windows Vista, Internet Explorer 6.0 or higher.

Part No. 013590 may only be ordered in connection with Part No. 013618.

Please use order form on www.esser-systems.com.

013618



Data points package



Package of 500 data points for project-related allocation of OPC tags, ESPA data points, etc.



The data points package can only be ordered in connection with the license Part No. 013590 universal gateway for PC and/or license Part No. 013611 OPC server.

Please use order form on www.esser-systems.com.

013611



WINMAGplus license – OPC server



Option for WINMAG/WINMAGplus basic software. Required if WINMAGplus is to act as an OPC server.



The OPC server license can only be ordered in conjunction with the Part No. 013618 license. This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

013612



WINMAGplus license – OPC client



Option for WINMAG/WINMAGplus basic license. This is required if WINMAG is to display data from devices with OPC interfaces.



This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

Options

013613

**Option - notification**

License option for WINMAG/WINMAGplus basic license. Required if SMS (text message), fax or e-mail are to be sent from WINMAG.

This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. An ISDN connection (S0) as well as an ISDN card are required for the notification function.

Please use order form on www.esser-systems.com.

013650

**Option – escalation**

Option for the WINMAG/WINMAGplus basic license. Required if short text messages dispatched by WINMAG are to be acknowledged. Without acknowledgment, pre-programmed escalation plans can be activated.

This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering. For the escalation license, the Part No. 013613 notification license is required. A PC sound card is required for this function.

Please use order form on www.esser-systems.com.

013651

**Option – DTMF control option**

Option for the WINMAG/WINMAGplus basic license. Facilitates the execution of control sequences via dual tone multi frequency (DTMF). With this, for example, it is possible to switch system outputs connected to WINMAG on or off via mobile phone.

This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

013652

**Option – ability for customized interface rights (client-side)**

Option for the WINMAG/WINMAGplus basic license, allowing individual assignment of interfaces and rights to several operators.

This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

013660

**Option – WEBX**

License option for the basic WINMAG/WINMAGplus license, allowing display of all system statuses via Internet or Intranet, using standard browsers (max. 5).

This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

013624

**Option – redundancy**

Option for redundant connection of essernet and IGIS-Loop security networks to the WINMAG server. Interface operation for redundant networks is based on master/backup operation and prevents data loss in WINMAG objects in case of disruption of network connections caused by cable defects or COM port failure.

Please use order form on www.esser-systems.com.

013625



Option – client



License option for WINMAG/WINMAGplus basic license. Enables operation of one client station in a computer network with one server workstation. The license must be installed at the server workstation. Clients require only the WINMAG software to be installed. One WINMAG client license is needed per client.



This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary Part No. 013609. The update number of the basic license must be included when ordering.

Please use order form on www.esser-systems.com.

013640.10



WINMAGplus - remote-access package



With this remote-access package, WINMAG/WINMAGplus applications can be remotely serviced and supported via modem. The package includes four hours of telephone support within the first twelve months.



No modem is included with the package and must be provided in accordance with the existing transmission technology.

Please use order form on www.esser-systems.com.

013653



WINMAGplus – 4-monitor support option



Option for WINMAGplus basic license. Enables the allocation of 4 monitors from a choice of 8 monitors. This option only works with WINMAGplus.



This option requires a special graphics card with up to 8 outputs in the WINMAG hardware.

This option must be ordered per workstation which uses the multi-monitor option.

Please use order form on www.esser-systems.com.

013655



WINMAGplus – AutoCAD option



Option for WINMAGplus basic license. Enables the placement of detectors and groups directly from ACAD LT. The drawings are saved as dxf files. The detectors/groups are placed as hyperlinks in the ACAD drawing and stored. When importing these ACAD drawings into WINMAGplus, the symbols of the disciplines are automatically placed onto the correct position in the drawing. An ACAD license must be provided by the customer.



This option only works with WINMAGplus.

Please use order form on www.esser-systems.com.

013405.10

**Hardware option TCP/IP converter, Ethernet RS 232/RS 485****Features**

- Transmission with RS 232 max. length 15 m and with RS 485 max. length 1,000 m
- Serial interface: RS 232, RS 422 or RS 485 (2- and 4-wire), configurable via software
- Transmission speed: 300 baud to max. 230 kBaud configurable via software
- Serial connection: D-Sub 25, socket
- Ethernet interface: 10Base-T/100Base-TX
- Transmission speed: 10/100/auto Mbit, configurable via software
- Mode of transmission: half- /full-duplex or automatic, configurable via software
- Network access: RJ 45
- Supported protocol: ARP, UDP, TCP, ICMP, Telenet, TFTP, AutoIP, DHCP, HTTP, SNMP, TCP, UDP and Telnet, TFTP

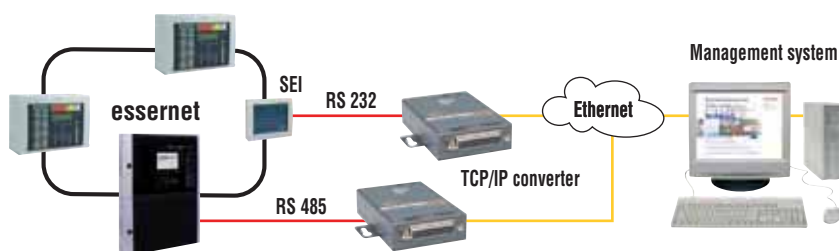
This hardware option is used to connect a remote essernet via a (for example) company-wide Ethernet LAN to a WINMAGplus control center via TCP/IP. This allows the device to be used as a protocol converter between the SEI contained on the essernet and the WINMAGplus control center available in the Ethernet LAN.

Technical Data

Operating voltage	9 ... 30 V DC
Ambient temperature	0 °C ... 60 °C
Storage temperature	-40 °C ... 85 °C
Type of protection	IP30
Housing	metal
Weight	approx. 200 g
Power consumption	1.5 W
Dimensions	W: 90 mm H: 64 mm D: 23 mm



System requirements for operation and software configuration: Windows® 2000/XP. Bidirectional or unidirectional data transfer depends on the SEI used, thus serial essernet interface EDP unidirectional Part No. 784855 or bidirectional Part No. 784856. Up to 20 TCP/IP converters can be connected per personal computer.



784847

**Serial interface for WINMAGplus / WINMAGLite**

Interface suitable for serially connecting one 800X/IQ8Control fire alarm panel to WINMAGplus/WINMAGLite. The module is plugged to the essernet slot in the control panel. As a result, essernet operation is disabled. For PC connection, the RS 232 isolator module is required (Part No. 784754).

Technical Data

Operating voltage	10.5 ... 15 V DC
Quiescent current @ 12 V DC	approx. 85 mA



The control panel is connected to the PC via the RS 232 cable for a maximum distance of 1,000m, which is not supplied as standard.

Phase-out-date: 01.09.2012

Accessories

784754 Adapter module ADP-PRS-232

Services

784830.10

**Detection point input**

Object-related according to written customer specifications.



This item is on request!

784832.10

**Text page input**

Object-related according to written customer specifications.



This item is on request!

784833.10

**Graphics page input**

Object-related according to written customer specifications.



This item is on request!

784839.10

**Graphics page conversion**

Conversion of various graphics formats into format readable for WINMAGplus.

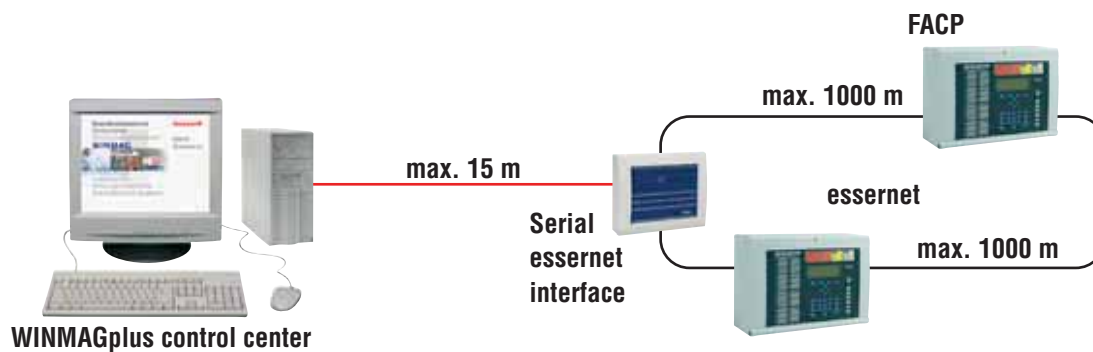


This item is on request!

Application Example

1.

WINMAGplus single station system with an essernet connection



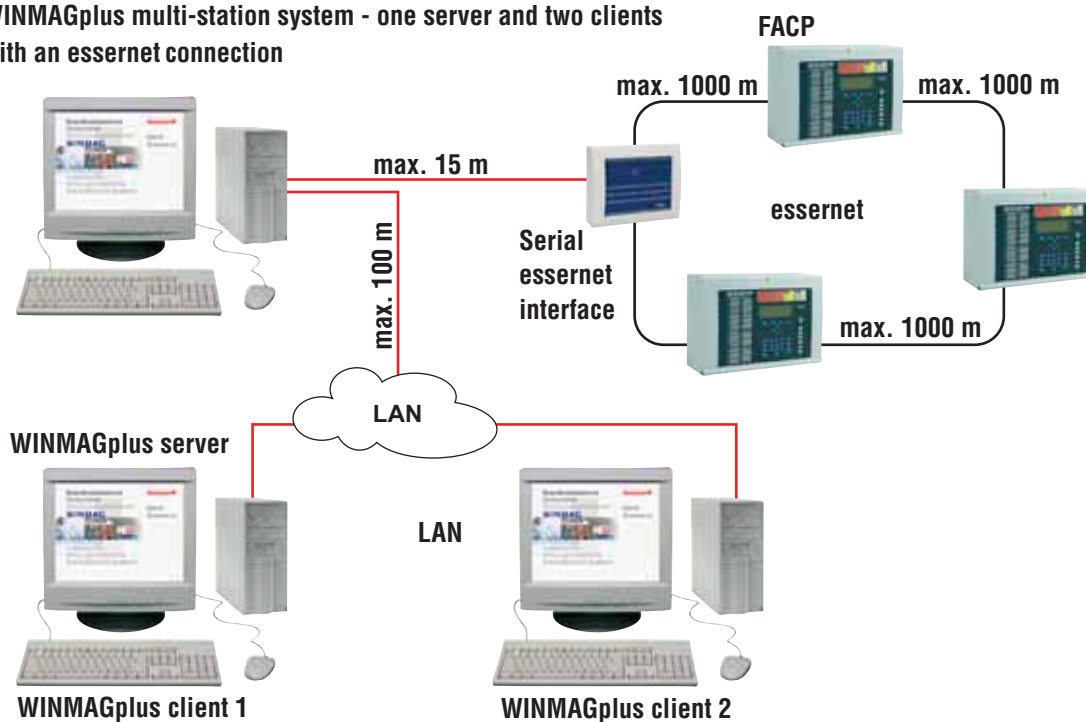
WINMAGplus software requirements:

1 x CD WINMAGplus control center software
1 x Basic license WINMAGplus control center software
1 x License fire detection technology

Part No. 013610
Part No. 013631
Part No. 013626

2.

WINMAGplus multi-station system - one server and two clients with an essernet connection



WINMAGplus software requirements:

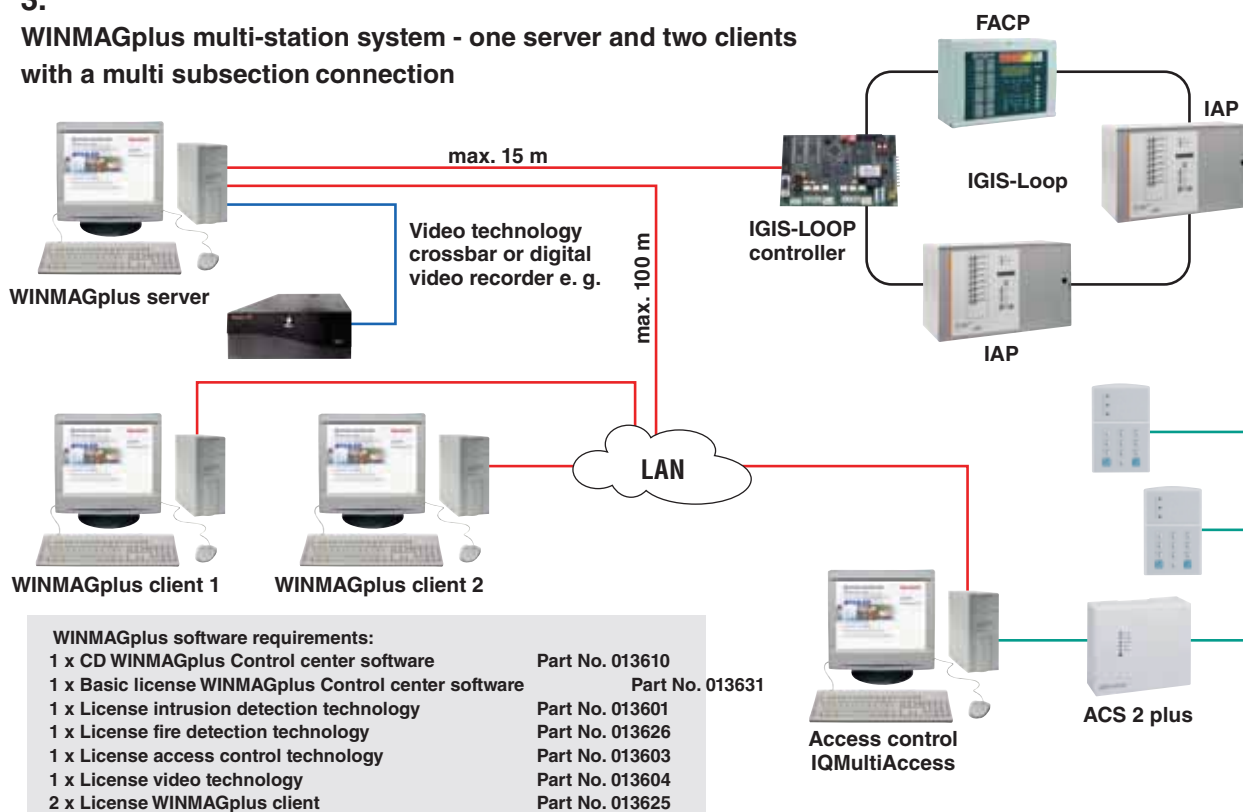
1 x CD WINMAGplus control center software
1 x Basic license WINMAGplus control center software
1 x License fire detection technology
2 x License WINMAGplus client

Part No. 013610
Part No. 013631
Part No. 013626
Part No. 013625

Application Example

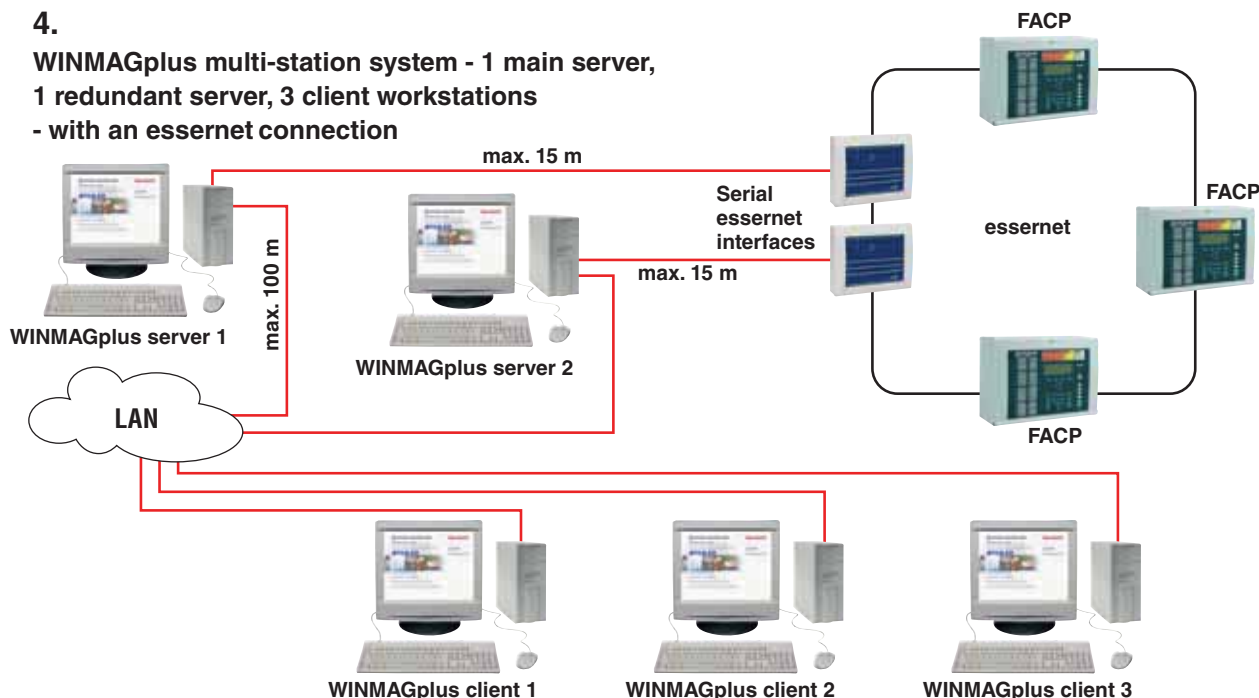
3.

WINMAGplus multi-station system - one server and two clients with a multi subsection connection



4.

WINMAGplus multi-station system - 1 main server, 1 redundant server, 3 client workstations - with an essernet connection





Application example

013635



WINMAGLite with USB dongle



Features

- Cost-effective management software for hazard detection systems
- Visualizing and controlling of only one hazard detection central control panel (FDS, VAPA, IDS, RRT, AC)
- Visualizing and controlling of VisiOprime or Fusion video management systems
- Management of up to 500 detection points
- Processing of up to 100 status reports per second
- Processing of up to 100 macro processes
- Connection of log and alarm printers
- Information display via monitor and/or printer (Windows standard printer)
- Adjustable program background
- Flexible, window-oriented graphics
- Display and location of detectors in diagrams
- Status information indicators
- Pre-defined alarm reports
- Simulation function
- Extensive event and operation logging
- Users possible

WINMAGLite is a cost effective first step to hazard detection systems management. Ease of operability as well as pre-defined, practical central control panel and detection point types facilitate the commissioning and operation of WINMAGLite.

WINMAGLite is perfect for small systems for which no expansions or connection of further hazard detection control panels are planned in the near future. Thus, the Lite version is perfectly suitable for a broad range of applications, even for WINMAG professionals.

Especially small objects can be professionally secured due to a combination of a hazard detection system with the Honeywell video management systems of Honeywell VisiOprime. WINMAGLite provides the user with almost all basic WINMAG functions. Unlike the full version, this version can initially connect only one hazard detection central control panel.

The user has access to pre-defined programs which can automatically be adapted via a text editor to the specific situation on site.

The alarm stack which was implemented in previous WINMAG versions has been replaced by symbols displayed in the top bar which indicate alarms. The new feature improves overall clarity so that the user can react more quickly in the case of an alarm.



Hardware and software requirements:

Pentium processor 3 GHz or higher, min. 512 MB RAM , min. 1 GB hard disk, XGA graphics card with min. 4 MB video memory, monitor with 1024 x 768 pixels or more, sound card with external speakers, Windows XP Professional SP2 and Windows 2003 Server, Internet Explorer 6.0 or higher.

Please use order form on www.esser-systems.com.

Training for this product can be offered. Please contact international sales support.



Control center software CD WINMAGplus basic package (Part No. 013610).

Accessories

Please take note that for connecting one essernet is needed consisting of SEI and fire alarm system.

013636



WINMAGLite upgrade to WINMAGplus full version



If the WINMAGLite system limits have been reached, an upgrade to the full version of WINMAGplus is possible, since both systems have access to the same database. WINMAG options are not part of the upgrade and must be ordered separately.



WINMAGplus options are not included in the upgraded version and must be ordered separately.























Please use order form on www.esser-systems.com.

Difference between WINMAGLite and WINMAGplus

WINMAGLite is the inexpensive starter version of the hazard management system WINMAGplus with reduced features. It is used for visualization and control of a single hazard detection control panel. The following table shows the most important features of both programs.

In this comparison, you can see whether WINMAGLite is sufficient for an application or WINMAGplus must be used.

The data structure of WINMAGLite and WINMAGplus is identical. It is possible to change from WINMAGLite to the full version.

	WINMAGLite	WINMAGplus
Item No.	013635	013631+ Options
Interfaces	1 hazard detection control + any Fusion video devices	as desired, depending on options
I/O points per object	500	32000
Setting of I/O points	individual	individual
Special I/O Types	yes	yes
Event display	yes	yes
Meta data	yes	yes
Alarm stack	not available	yes
User	3 predefined, can be renamed	unlimited, free definable
Tool bars	predefined	configurable
SIAS-programs	predefined, no special programs	configurable, extensible
SIAS language	no individual programming	full featured
Alarm display	counter and pop-ups with individual text	identical to WINMAGLite, in addition alarm programs with alarm stacks
Alarm criteria	predefined	configurable
Graphics	identical to WINMAGplus, but without - multi-monitor - AutoCAD	several formats like - bmp, jpg, png, emf, wmf - AutoCAD-Integration (optional)
Supported monitors	2	4 from 8 (optional)
Number of graphics	unlimited	unlimited
Graphics displayable at once	13	48
Symbol actions	predefined list	configurable, special functions
Creating special symbols	no	yes
Multi-station functions	no	yes
Mandatory	no	yes
Timer programs	no	yes
State monitoring	no	yes
Printer allocation	1	15
Licensing	dongle without options	dongle with options
System configuration list	 Change display options  Change network configuration  Edit I/O device types  Edit alarm reasons	 Change general options  Change display options  Change network configuration  Setup printer  Edit user groups  Edit users  Edit clientele  Edit toolbars  Edit symbols  Edit I/O device types  Edit alarm reasons  Edit log types  Edit time programs  Edit state monitoring  Edit calendar  Edit time zones  Edit SIAS program  Edit SIAS macros



Automatic Detectors	Detector Series 9000 (Conventional)	136-138
	Series IQ8Quad (Intelligent Addressable)	139-154
	Intrinsically Safe	155-160
	Detector Base Series 9x00	161
	Base Series IQ8Quad	162
	Accessories	163-179

Automatic Detectors

Detector Series 9000 (Conventional)

Features

- Detector series preferably for connection to third-party control panels
- Detector series can be used with all ESSER fire alarm panels
- All detectors without switch-on-control
- Green marking on housing for heat detectors
- Up to 30 detectors can be connected per zone
- Rated voltage $U_N = 9\text{ V}$
- Low closed-circuit current
- The detector alarm current can be programmed for the adaptation to other manufacturer's panels
- Large operating voltage range
- Detector design based on SMD technology
- All detectors can be programmed on one primary loop
- Standard detector base Part No. 781590, detector base Part No. 781588 with relay output (30 V/1 A) or detector base Part No. 781592 with opto-coupler output (30 V/0.4 A) can be used for all series 9000 detectors
- Easy installation
- Pre-mounting plate with snap-in adapter
- Detector base with base adapter Part No. 781498 up to IP43
- Optional detector lock
- Detector removal tool for max. 9 m mounting height
- Reverse polarity protected

Automatic conventional fire detectors with high reliability used for premises and items of property with low and medium concentration of valuable assets.

The detector alarm current can be adjusted for 12 V zone voltage to max. 50 mA by means of connecting a resistor of 1 kohm to max. 62 ohm located between terminals 4 and 5. Resistor value can be calculated with the following formula: $R = 2.4\text{ V} / (I_{\text{alarm}} - 9.4\text{ mA})$

Technical Data

Operating voltage	8 ... 28 V DC
Alarm current @ 9 V DC	typ. 9 mA
Display	red LED / light pipe
Storage temperature	-25 °C ... 75 °C
Air humidity	≤ 95% (without condensation)
Type of protection	IP40, IP43 with base adapter 781498
Material	ABS
Color	white, similar to RAL 9010
Weight	approx. 90 g
Dimensions	Ø: 90 mm H: 61 mm Ø: 90 mm H: 72 mm (incl. base)

Accessories

- 767800 Mounting bracket
- 781590 Detector base for series 9000/9200
- 781588 Detector base with relay contact for series 9000

761162



Fixed heat detector



Approval: VdS

Automatic heat detector with fast semiconductor sensor for the detection of fires with extreme fluctuations in ambient temperatures. Conventional heat detector without switch-on-control, with alarm latch and alarm indicator.

Technical Data

Quiescent current @ 9 V DC	approx. 12 µA
Area to be monitored	max. 30 m²
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Detector specification	DIN EN 54 - 5, Class 1

761162.F0



Fixed heat detector, France



Approval: NF-SSI

Same as 761162, but French version.

Technical Data

Quiescent current @ 9 V DC	approx. 12 µA
Detector specification	EN 54-5 A1S

761262

**Rate-of-rise heat detector****Approval: VdS**

Automatic heat detector with fast semiconductor sensor for the detection of fires with rapidly rising temperatures and integrated fixed temperature function for the detection of fires with slowly rising temperatures. Conventional detector without switch-on-control, with alarm latch and alarm indicator.

Technical Data

Quiescent current @ 9 V DC	approx. 12 µA
Area to be monitored	max. 30 m ²
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54 - 5 A1

761262.VC0

**Rate-of-rise heat detector, China**

Same as 761262, but Chinese version.

763262.F0

**Rate-of-rise heat detector, France****Approval: NF-SSI**

Automatic heat detector with fast semiconductor sensor for the detection of fires with rapidly rising temperatures and integrated fixed temperature function for the detection of fires with slowly rising temperatures. Conventional detector without switch-on-control, with alarm latch and alarm indicator.

Technical Data

Quiescent current @ 9 V DC	approx. 12 µA
Detector specification	EN 54-5 A1R

761362

**Optical smoke detector****Approval: VdS, CNBOP**

Optical scatter detector for the early detection of fires with clear smoke development. Conventional smoke detector without switch-on control, with alarm latch and alarm indicator.

Technical Data

Quiescent current @ 9 V DC	approx. 20 µA
Area to be monitored	max. 110 m ²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 72 °C
Detector specification	DIN EN 54 - 7

761362.VC0

**Optical smoke detector, China**

Same as 761362, but Chinese version.

763362.F0

**Optical smoke detector, France****Approval: NF-SSI**

Optical scatter detector for the early detection of fires with clear smoke development. Conventional smoke detector without switch-on control, with alarm latch and alarm indicator.

Technical Data

Quiescent current @ 9 V DC	approx. 20 µA
Detector specification	EN 54-7

761306

**Optical smoke detector incl. base with relay output for BTS**

The conventional detector with relay contact (Part No. 761306) consists of a series 9000 optical smoke detector (Part No. 761362) and a special detector base with relay (Part No. 781582) which facilitates a direct connection to a 48 V DC voltage supply. Thus the detector does not have to be operated in connection with a FACP. If the detector detects a fire alarm, a floating relay contact switches and the alarm can then be forwarded. The relay contact is set to "normally closed" by default, but can also be configured to "normally open" with a soldered link on the base circuit board. A typical application for this detector is the monitoring of mobile stations.

Technical Data

Operating voltage	42 ... 58 V DC
Quiescent current	ca. 40 μ A
Area to be monitored	max. 110 m ²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 72 °C



Included is a special base with relay output.

Automatic intelligent fire detectors with high reliability, used for premises and items of property with medium and high concentration of valuable assets.

Detector series IQ8Quad features, system advantages

Designed for optimal operation on System 8000 and IQ8Control fire alarm systems with multisensor fire detectors for the detection of all types of fires, even under the most difficult operating conditions.

Detector with and without loop isolator

Different options of installation

- wiring in loop and spur combination, e.g.
- maximum number of detectors with cable lengths of up to 3,500 m with installation cable for fire detection, e.g. cables I-Y(St)Yn x 2 x 0.8 mm
- up to 127 detectors and detector zones per loop installation
- up to 32 detectors per zone

Easy commissioning

- automatic detector addressing
- fixed address assignment of detector location, even after detectors have been replaced or added
- localization of wire breaks and short circuits on loop
- detector-LED used as alarm indicator and as an indicator for detectors in service
- adaptation to changing operating conditions
- dedicated LED for indicating operation (green LED)
- disconnection of individual detectors, detector zones and detection areas
- disconnection of individual sensors or several sensors at once within a multisensor fire detector; either manually or depending on programmed time of the day

Automatic adaptation to varying environmental conditions

- compensation of changing levels of air pressure, humidity, smoke concentration according to the double chamber principle
- electronic compensation of long-term influences like aging or pollution

Reliable detection

- constant alarm sensitivity of multisensor fire detector for all types of fire
- large signal to noise ratio due to the special design of the sensors and the electronics to suppress electromagnetic interference

Reliable false alarm suppression

- high immunity against false alarms by means of timed evaluation of different sensor criteria
- signal patterns not typical for fires are eliminated by using special filter algorithms
- automatic self-monitoring of detector electronics
- continuous loop monitoring even during short-circuits through isolating the relevant segment
- automatic monitoring of all sensors to guarantee operational capacity and correct condition.

Increased operating reliability

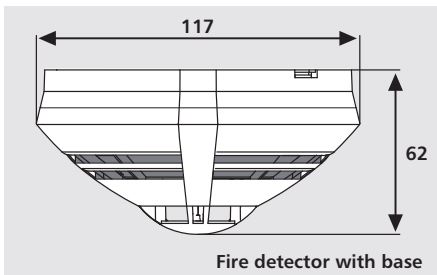
- short-circuit and wire break tolerant through monitoring from both ends of the loop
- alarm decision inside detector
- fail-safe circuit activated if communication fails

Maintenance

- automatic maintenance request
- heat detector identification through a black circle on the light transmission plate
- multisensor gas detector identification through a golden loop on the circle transmission plate
- operating time-, alarm- and fault counter in each detector
- automatic, cyclic loop check
- complete status interrogation from the control panel
- interrogation of operating data from all detectors on loop via standard service PC and detector interface

Comprehensive range of accessories

- standard detector base and relay base
- base adapter for ceiling mounting
- dust cover for fire detector or detector base
- kit for suspended ceiling mounting
- RF base

Detectors w/o Integrated Alarm Devices**Technical Data**

Alarm current w/o communication curtain	approx. 18 mA
Air speed	0 ... 25.4 m/s
Storage temperature	-25 °C ... 75 °C
Air humidity	<95 %
Type of protection	IP43 (with base + option)
Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 110 g
Dimensions	Ø: 117 mm H: 49 mm (62 mm incl. base)



Special-color on demand

The detectors Part No. 802271, 803271, 802371, 803371, 802373, 802374 and 803374 are approved in the scope of the DiBt system authorization for the operation with an Automatic Door System.



Detector base is not supplied as standard

Accessories

- 767800 Mounting bracket
- 805590 Standard detector base for IQ8Quad
- 805591 Detector base with relay contact for IQ8Quad

802171

**Fixed heat detector IQ8Quad with isolator****Approval: VdS, CNBOP, BOSEC**

Automatic heat detector with fast semiconductor sensor to guarantee reliable detection of fires with strong heat generation. Intelligent fire detector with decentralized intelligence, automatic function self-test, CPU failure mode, alarm and operating data memory, alarm indicator, soft-addressing and operating indication.

The detector is provided with an integrated isolator. A parallel detector indicator can be connected.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 40 µA approx. 220 µA @ 42 V
Area to be monitored	max. 30 m²
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54 - 5 A1S / -17



Special marking for heat detector on the light pipe: black ring.

802171.F

**Fixed heat detector IQ8Quad with isolator, France****Approval: NF-SSI**

Same as 802171, but with NF marking.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 40 µA
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Color	white, similar to RAL 9010
Detector specification	EN 54-5 A1S, EN 54-17



Special marking for the heat detector on the light pipe: black ring.

802177

**Fixed heat detector (class B) IQ8Quad with isolator****Approval: VdS**

Same as 802171, but for increased operating temperature according to EN 54-5 class B.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 40 µA approx. 220 µA @ 42 V
Area to be monitored	max. 30 m ²
Height to be monitored	max. 6 m
Application temperature	-20 °C ... 65 °C
Detector specification	EN 54-5 BS / -17



Special marking for heat detector on the light pipe: black ring.

802271

**Rate-of-rise heat detector IQ8Quad with isolator****Approval: VdS, CNBOP, BOSEC**

Automatic heat detector with fast semiconductor sensor to guarantee reliable detection of fires with rapidly rising temperatures and integrated fixed temperature function for the detection of fires with slowly rising temperatures. Intelligent fire detector with decentralized intelligence, automatic function self-test, CPU failure mode, alarm and operating data memory, alarm indicator, soft-addressing and operating indication.

The detector is provided with an integrated isolator. A parallel detector indicator can be connected.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 40 µA approx. 220 µA @ 42 V
Area to be monitored	max. 30 m ²
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-5 A1 / -17



Special marking for heat detector on the light pipe: black ring.

802271.F

**Rate-of-rise heat detector IQ8Quad with isolator, France****Approval: NF-SSI**

Same as 802271, but with NF marking.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 40 µA
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Color	white, similar to RAL 9010
Detector specification	EN 54-5 A1R, EN 54-17



Special marking for the heat detector on the light pipe: black ring.

802271.VC0

**Rate-of-rise heat detector IQ8Quad with isolator, China**

Same as 802271, but Chinese version.

802371

**Rate-of-rise heat detector IQ8Quad w/o loop isolator****Approval: VdS, CNBOP**

Same as 802271, but without loop isolator.

The detector can be operated in a standard detector group as well as independently.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 40 µA
Area to be monitored	max. 30 m²
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-5 A1
DIBt approval	Z-6.5-1764 license system 8000-FSA Z-6.5-1759 license system IQ8FSA 8619 Z-6.5-1808 license system 8000-FSA-PLus

802371

**Optical smoke detector IQ8Quad with isolator****Approval: VdS, CNBOP, BOSEC**

Optical smoke detector to guarantee safe and early detection of fire. Intelligent fire detector with decentralized intelligence, automatic function self-test, CPU failure mode, alarm and operating data memory, alarm indicator, soft-addressing and operating indication. The detector is provided with an integrated isolator. A parallel detector indicator can be connected.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 50 µA approx. 280 µA @ 42 V
Area to be monitored	max. 110 m²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 72 °C
Detector specification	EN 54-7 / -17

802371.F

**Optical smoke detector IQ8Quad with isolator, France****Approval: NF-SSI**

Same as 802371, but with NF marking.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 50 µA
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 72 °C
Detector specification	EN 54-7, EN 54-17



The installation heights are given for information only and can not replace the standards and rules.

Accessories

805590 Standard detector base for IQ8Quad

805591 Detector base with relay contact for IQ8Quad

802371.VC0

**Optical smoke detector IQ8Quad with isolator, China**

Same as 802371, but Chinese version.

802371

**Optical smoke detector IQ8Quad w/o loop isolator****Approval: VdS, CNBOP**

Same as 802371, but without loop isolator.

The detector can be operated in a standard detector group as well as independently.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 50 µA
Area to be monitored	max. 110 m²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 72 °C
Detector specification	EN 54-7
DIBt approval	Z-6.5-1764 license system 8000-FSA Z-6.5-1759 license system IQ8FSA 8619 Z-6.5-1808 license system 8000-FSA-PLus

802375

**OTblue multisensor fire detector IQ8Quad with isolator****Approval: VdS**

Multisensor fire detector with integrated optical detector and heat detector. The optical measurement chamber is provided with a newly developed sensor technology, enabling the detection of open fires, smoldering fires and fires with high heat generation. Especially for open fires, the classical ionization technology implemented in ionization detectors is replaced by the new detection technology. The detector is capable of identifying the TF1 and TF6 test fires described in the EN 54-9:1982 specification.

The OTblue multisensor is an intelligent detector with time-related signal analysis, signal correlation of the sensor data, decentralized intelligence, automatic function self-test, CPU failure mode, automatic adaptation to environmental conditions, alarm and operating data memory, alarm indicator and soft-addressing.

The detector is provided with an integrated isolator and a parallel detector indicator can be connected.

Technical Data

Operating voltage	9 ... 42 V DC
Quiescent current @ 19 V DC	approx. 50 µA approx. 280 µA @ 42 V
Area to be monitored	max. 110 m²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 50 °C
Material	ABS
Detector specification	EN 54-7/-5 A2 /-17, CEA 4021

802373

**OT multisensor fire detector IQ8Quad with isolator****Approval: VdS**

Multisensor fire detector with integrated optical detector and heat detector, with time-controlled signal analysis and weighted data combination of both detector functions for detecting smoldering fires and fires with extreme heat generation. Intelligent detector with decentralized intelligence, self-function test, CPU redundancy mode, automatic adaptation to the environments, alarm and operating data storage, alarm indication and soft addressing.

The loop isolator is integrated in the detector. A parallel detector indicator is additionally attachable.

Technical Data

Operating voltage	9 ... 42 V DC
Quiescent current @ 19 V DC	approx. 50 µA approx. 280 µA @ 42 V
Area to be monitored	max. 110 m²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-7/-5 A2 /-17, CEA 4021

802374

**O²T multisensor fire detector IQ8Quad with isolator****Approval: VdS, CNBOP, BOSEC**

Multisensor fire detector provided with two built-in optical smoke sensors with different scattered light angles as well as additional heat detector sensor evaluation to guarantee the detection of different types of fire from smoldering fires to open fires with constant sensitivity level. Smoke sensor signal identification to ensure smoke classification and reduction of false alarms caused, for instance, by water vapor or dust.

Because of its excellent detection characteristics, the detector is also able to identify the standardized TF1 and TF6 test fires. The O²T multisensor fire detector is also suitable for applications with higher temperatures of up to +65 °C. The detector is provided with an integrated isolator. A parallel detector indicator can be connected.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 60 µA approx. 330 µA @ 42 V
Area to be monitored	max. 110 m ²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 65 °C
Detector specification	EN 54-7/-5 B /-17, CEA 4021

802374.F

**O²T multisensor fire detector IQ8Quad with isolator, France****Approval: NF-SSI**

Same as 802374, but with NF marking.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 60 µA
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 65 °C
Color	white, similar to RAL 9010
Detector specification	EN 54-7, EN 54-17



Installation heights are given as a guide and cannot replace the standards and rules.

802374.VC0

**O²T multisensor fire detector IQ8Quad with isolator, China**

Same as 802374, but Chinese version.

803374

**O²T multisensor fire detector IQ8Quad w/o loop isolator****Approval: VdS, CNBOP**

Same as 802374, but without loop isolator.

The detector can be operated in a standard detector group as well as independently.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 60 µA
Area to be monitored	max. 110 m ²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 65 °C
Detector specification	EN 54-7/-5 B, CEA 4021
DIBt approval	Z-6.5-1764 license system 8000-FSA Z-6.5-1759 license system IQ8FSA 8619 Z-6.5-1808 license system 8000-FSA-PLus

802473



OTG multisensor fire detector (CO) IQ8Quad with isolator

**Approval: VdS**

Multisensor fire detector with integrated smoke detector, heat detector and gas sensor (CO) for preventive and early detection of fires ranging from smoldering fires to open fires through combined evaluation of scattered light, temperature and gas. An alarm is actuated at carbon monoxide (CO) concentration levels that are life-threatening for humans. The detector is provided with an integrated isolator. A parallel detector indicator can be connected.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 65 µA
Quiescent current @ FACP battery	approx. 225 µA @ 27,5 V approx. 360 µA @ 42 V
CO pre-alarm	approx. 75 ppm
CO alarm	approx. 100 ppm
Area to be monitored	max. 110 m ²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-7/-5 A2 /-17, CEA 4021



In the course of installation, we recommend testing the integrated CO sensor with our CO test gas (Part No. 805583) or CO capsule (Part No. 805553).

Durability CO sensor: 5 years

Technical alarm range CO: 10 ppm ... 150 ppm

Gas sensors (CO) mainly react to the carbon monoxide arising from a fire (CO). They have, however, also a cross sensitivity to other gases, as for example hydrogen (H₂), acetylene (C₂H₂) or nitric oxide (NO).

Special marking for gas detector on the light pipe: black ring.

Detectors with Integrated Alarm Devices

Features

Detection

- The reliable O²T multisensor principle for consistent response performance at the highest level of security against false alarms

Flash lamp

- Loop powered - no need for external power supply
- No additional short address
- Automatic synchronization of various IQ8Quad alarm signaling devices
- High flash energy
- Loop powered - no need for external power supply
- No additional short address
- Automatic synchronization of various IQ8Quad alarm signaling devices
- Maximum sound level: 92 dB (A) at 1 m
- Maximum sound pressure can be set
- Multiple signal patterns can be combined to one signal
- Signal pattern and repetition rates can be set
- 20 different signal tones, incl. DIN-tone

Speech message with sounder

- Loop powered - no need for external power supply
- No additional short address
- Automatic synchronization of various IQ8Quad alarm signaling devices
- Maximum sound level: 92 dB (A) at 1 m
- Maximum sound pressure can be set
- Multiple signal patterns can be combined to one signal
- Signal pattern and repetition rates can be set
- 20 different signal tones, incl. DIN-tone
- Speech messages can be played in up to 5 languages
- 5 alarm messages per languages are preprogrammed

The IQ8Quad smoke detectors with built-in alarm device incorporate up to 4 different functionalities (detect, flash, sound, and/or speech) depending on the type (O²T/F, O²T/So, O²T/Sp, O²T/FSp) of detector.

- fire detection as per EN 54-7
- integrated heat sensor as per EN 54-5
- optical alarm via flash lamp
- acoustic alarm via sounder as per EN 54-3
- acoustic alarm speech messages

Detection

Multisensor fire detectors with two built-in optical smoke sensors with different scattered light angles as well as additional heat detector sensor evaluation for detecting everything from smoldering fires to open fires with consistent response performance. Smoke sensor signal identification to ensure smoke classification and reduction of false alarms caused, for instance, by water vapor or dust. Each detector is provided with an integrated isolator.

Alarm signaling

The alarm signaling device is activated from the control panel. No further short address needs to be allocated. It is programmed with tools 8000 version 1.05 or better.

Alarm tone / speech message programming

For detectors with speech message and/or alarm tone function with up to five language options, up to 4 signals can be programmed. Two signals are reserved for alarm signaling and evacuation in the case of fire. Two further signals can be programmed for other events. Each signal can consist of up to four signal components, enabling one signal to be programmed as a DIN tone combined with subsequent speech messages in three different languages.

Alarm tones can be chosen from a table with various tone types. For application in schools, a break signal to signify the breaks between class can be activated.

Four different speech messages, each in three languages, are available:


- "An incident has been reported in the building. Please await further instructions."
- "Attention" please. This is an emergency. Please leave the building by the nearest available exit."
- "This is a fire alarm. Please leave the building immediately by the nearest available exit."
- "This is a test message. No action is required. "

When the basic setting is selected, signals / signal components can be continuously repeated until the signaling function is interrupted by the control panel. They can also be programmed with a repetition rate of one to three times. Thus, the break signal in schools can be deliberately set to only one repetition. In the same way, the total signal can be set to continuous repetition, with the DIN tone being played only once while subsequent speech messages are played up to three times.

Sound pressure programming

The sound level [dB (A)] can be set to eight levels, from approximately 64 dB (A) to approximately 92 dB (A).

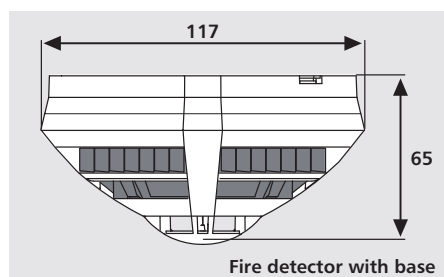
All the security you need in one housing with four functions: detection, flasher, sounder and speech alarm.

 All IQ8Quad detectors with built-in alarm devices can only be operated on the powered loop. For physical reasons, an increased sound level leads to a higher current consumption rate of the alarm device and the corresponding load factor must be considered when calculating the maximum number on the loop. Altogether up to 127 bus devices per loop can still be connected. Please consider that extra training is required when dealing with IQ8Quad with a built-in alarm device. The training includes installation planning and commissioning techniques. For further information take a look at our training brochure. Information concerning the calculation can be found in the "Project Planning Support" chapter.

signal 1 (evacuation)	sequence 1	sequence 2	sequence 3	sequence 4
signal 2 (alarm)	sequence 1	sequence 2	sequence 3	sequence 4
signal 3 (event 1)	sequence 1	sequence 2	sequence 3	sequence 4
signal 4 (event 2)	sequence 1	sequence 2	sequence 3	sequence 4

Signals

Detector with Integrated Alarm Devices



Technical Data

Operating voltage	8 ... 42 V DC
Area to be monitored	max. 110 m ²
Height to be monitored	max. 12 m
Air speed	0 ... 25.4 m/s
Application temperature	-20 °C ... 65 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	<95 %
Type of protection	IP 42
Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 145 g
Dimensions	Ø: 117 mm H: 59 mm Ø: 117 mm H: 67 mm (incl. base)



Detector bases are not supplied as standard.

The Part No. 769836 demo package is available for presentations. Further data can be viewed in the accessories section for automatic detectors. For calculating the battery capacity of FACP, the detector data "quiescent current @ FACP battery" can be added.

Special colors on demand!

It is not possible to use the detector base with detector (Part No. 805591).

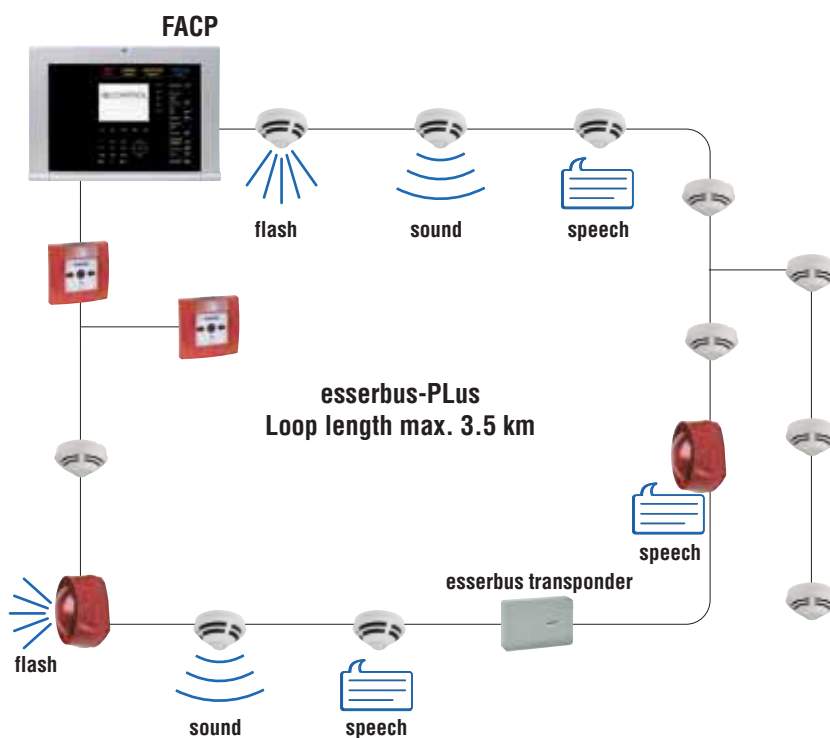


Detector base is not supplied as standard

Accessories

767800 Mounting bracket

805590 Standard detector base for IQ8Quad



Application example

802383

**O²T/F multisensor fire detector IQ8Quad with isolator****Approval: VdS****O²T/F multisensor fire detector IQ8Quad with integrated flasher**

In addition to smoke detection with the conventional O²T multisensor technology, the detector is provided with a built-in flash lamp.

Technical Data

Quiescent current @ 19 V DC	approx. 75 µA
Quiescent current @ FACP battery	approx. 400 µA @ 42 V
Load factor	2
Lighting energy	approx. 3 Y
Strength of light	max. 15.8 cd peak / 2.63 cd effective
Signal flashing lamp	red
Air humidity	<95 %
Type of protection	IP42
Detector specification	EN 54-7/-5 B/-17, CEA 4021



Not suitable for application in detector base Part No. 805591!



Detector base is not supplied as standard

802382

**O/So optical smoke detector IQ8Quad with isolator****Approval: VdS****O/So optical smoke detector IQ8Quad with integrated sounder**

Scatter smoke detector for safe and early detection of smoldering fires with light smoke generation. Intelligent detector with decentralized intelligence, automatic function self-test, CPU failure mode, alarm and operating data memory, alarm indicator, soft-addressing and operating indication. The detector is provided with a loop isolator.

Along with smoke detection components, the detector is provided with a built-in sounder.

Technical Data

Quiescent current @ 19 V DC	approx. 50 µA
Quiescent current @ FACP battery	approx. 320 µA @ 42 V
Load factor	2
Sound level	max. 92 dB (A), +/- 2 db (A) @ 1m for DIN tone
Detector specification	EN 54-7, EN 54-17
Specification	EN 54-3 acoustic signaling device



Not suitable for application in detector base Part No. 805591!



Detector base is not supplied as standard

802382.F0

**O/So optical smoke detector IQ8Quad with isolator, France****Approval: VdS, NF-SSI****O/So optical smoke detector IQ8Quad with integrated sounder**

Scatter smoke detector for safe and early detection of smoldering fires with light smoke generation. Intelligent detector with decentralized intelligence, automatic function self-test, CPU failure mode, alarm and operating data memory, alarm indicator, soft-addressing and operating indication. The detector is provided with a loop isolator.

Along with smoke detection components, the detector is provided with a built-in sounder.

Technical Data

Quiescent current @ 19 V DC	approx. 50 µA
Load factor	2
Sound level	max. 92 dB (A), +/- 2 db (A) @ 1m for DIN tone
Material	ABS
Detector specification	EN54-7, EN 54-17



Not suitable for application in detector base Part No. 805591!

802382.VC0



O/So optical smoke detector IQ8Quad with isolator, China

Same as 802380, but Chinese version.

802384

O²T/So multisensor fire detector IQ8Quad with isolator

Approval: VdS

O²T/So multisensor fire detector IQ8Quad with integrated sounder

In addition to smoke detection with the conventional O²T multi-sensor technology, the detector is provided with a built-in alarm signaling device. The sound level can be set to eight different levels.

Technical Data

Quiescent current @ 19 V DC	approx. 80 µA
Quiescent current @ FACP battery	approx. 450 µA @ 42 V
Load factor	2
Sound level	max. 92 dB (A), +/- 2 db (A) @ 1m for DIN tone
Air humidity	<95 %
Type of protection	IP42
Detector specification	EN 54-7/-5 B/-17, CEA 4021
Specification	EN 54-3 acoustic signaling device



Not suitable for application in detector base Part No. 805591!



Detector base is not supplied as standard

802386

O²T/Sp multisensor fire detector IQ8Quad with isolator

Approval: VdS

O²T/Sp multisensor fire detector IQ8Quad with integrated sounder and speech

In addition to smoke detection with conventional O²T multisensor technology, the detector is provided with a built-in voice alarm device. It can be set to eight different levels.

Technical Data

Quiescent current @ 19 V DC	approx. 90 µA
Load factor	3
Sound level	max. 92 dB (A), +/- 2 db (A) @ 1m for DIN tone
Detector specification	EN 54-7/-5 B/-17, CEA 4021
Specification	EN 54-3 acoustic signaling device EN 54-3 acoustic speech signaling device



Not suitable for application in detector base Part No. 805591!



Programmed with 5 languages: German, English, Spanish, French and Italian

802386.BR

O²T/Sp multisensor fire detector IQ8Quad with isolator, Brazil**Approval: VdS****O²T/Sp multisensor fire detector IQ8Quad with integrated sounder and speech**

In addition to smoke detection with conventional O²T multisensor technology, the detector is provided with a built-in voice alarm device. It can be set to eight different levels.

Technical Data

Quiescent current @ 19 V DC
Quiescent current @ FACP battery
Load factor
Sound level
Specification

approx. 90 µA
approx. 500 µA @ 42 V
3
max. 92 dB (A), +/- 2 db (A) @ 1m for DIN tone
EN 54-3 acoustic signaling device
EN 54-3 acoustic speech signaling device (Q2/2011)



Not suitable for application in detector base Part No. 805591!



Programmed with 5 languages: Portuguese (Brazil), English, German, Spanish and French

802386.SV98

O²T/Sp multisensor fire detector IQ8Quad with isolator, composed version**Approval: VdS**

Same as 802386, but special language.



When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix.

802386.SV99

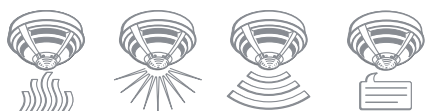
O²T/Sp multisensor fire detector IQ8Quad with isolator, customized version**Approval: VdS**

Same as 802386, but customized version.



When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix.

802385

**O²T/FSp multisensor fire detector IQ8Quad with isolator****Approval: VdS****O²T/FSp multisensor IQ8Quad with integrated flasher, sounder and speech**

In addition to smoke detection with the conventional O²T multisensor technology, the detector is provided with a built-in voice alarm device. It can be set to eight different levels.

Technical Data

Quiescent current @ 19 V DC	approx. 90 µA
Load factor	3
Sound level	max. 92 dB (A), +/- 2 db (A) @ 1m for DIN tone
Lighting energy	approx. 3 Y
Strength of light	max. 15.8 cd peak / 2.63 cd effective
Signal flashing lamp	red
Detector specification	EN 54-7/-5 B/-17, CEA 4021
Specification	EN54-3 acoustic signaling device
	EN54-3 acoustic speech signaling device



Not suitable for application in detector base Part No. 805591!



Programmed with 5 languages: German, English, Spanish, French and Italian

802385.BR

**O²T/FSp multisensor fire detector IQ8Quad with isolator, Brazil****Approval: VdS****O²T/FSp multisensor IQ8Quad with integrated flasher, sounder and speech**

In addition to smoke detection with the conventional O²T multi-sensor technology, the detector is provided with a built-in voice alarm device. It can be set to eight different levels.

Technical Data

Quiescent current @ 19 V DC	approx. 90 µA
Quiescent current @ FACP battery	approx. 500 µA @ 42 V
Load factor	3
Sound level	max. 92 dB (A), +/- 2 db (A) @ 1m for DIN tone
Lighting energy	approx. 3 Y
Strength of light	max. 15.8 cd peak / 2.63 cd effective
Signal flashing lamp	red
Specification	EN 54-3 acoustic signaling device
	EN 54-3 acoustic speech signaling device (Q2/2011)



Not suitable for application in detector base Part No. 805591!



Programmed with 5 standard languages Portuguese (Brazil), English, German, Spanish and French

802385.NO

O²T/FSp multisensor fire detector IQ8Quad with isolator, Nordic

Same as 802385, but Nordic version.



Programmed with 5 languages: Norwegian, Swedish, Finnish, Danish and English

802385.F0

O²T/FSp multisensor fire detector IQ8Quad with isolator, France**Approval: VdS****O²T/FSp multisensor fire detector IQ8Quad with integrated flasher, sounder and speech**

In addition to smoke detection with the conventional O²T multisensor technology, the detector is provided with a built-in voice alarm device. It can be set to eight different levels.

Technical Data

Quiescent current @ 19 V DC	approx. 90 µA
Quiescent current @ FACP battery	approx. 500 µA @ 42 V
Load factor	3
Sound level	max. 92 dB (A), +/- 2 dB (A) @ 1m for DIN tone
Lighting energy	approx. 3 Y
Strength of light	max. 15.8 cd peak / 2.63 cd effective
Signal flashing lamp	red
Detector specification	EN 54-7, EN54-17



Not suitable for application in detector base Part No. 805591!



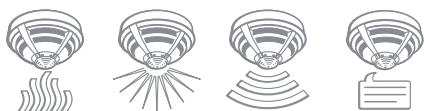
Programmed with 5 languages: German, English, Spanish, French and Italian

802385.SVRU

O²T/FSp multisensor fire detector IQ8Quad with isolator, Russia

Same as 802385, but Russian version.

802385.SV98

O²T/FSp multisensor fire detector IQ8Quad with isolator, composed version**Approval: VdS****O²T/FSp multisensor fire detector IQ8Quad with integrated flasher, sounder and speech**

Same as 802385, but with an individual combination of up to 5 languages, see special order form in the appendix.



When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix.

Cancellations or returns are not possible.

Not suitable for application in detector base Part No. 805591!



Programmed with an individual combination of up to 5 languages.

802385.SV99

**O²T/FSp multisensor fire detector IQ8Quad with isolator, customized version****Approval: VdS****O²T/FSp multisensor fire detector IQ8Quad with integrated flasher, sounder and speech**

Same as 802385, but with individual text and/or sounds. The max. recording time per device is 169 seconds.

Technical Data

Material	ABS plastic
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When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix.

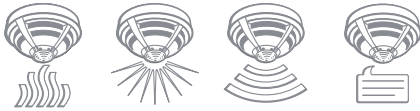
Costs for the recording of customer-specific texts and/or tones can be obtained by request.

Cancellations or returns are not possible.

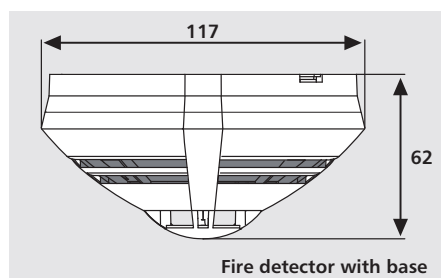
Not suitable for application in detector base Part No. 805591!



Programmed according to customer specifications.



IQ8Quad Ex (i)

**Technical Data****Data according to ATEX:**

Max. Input Voltage (U_i)	21 V DC
Max. Input current (I_i)	252 mA
Max. Output current (I_o)	10 mA
Max. internal capacity (C_i)	1 nF
Ambient temperature (T_a)	-20 °C ... 70 °C
EC-type examination certificate	TÜV 09 ATEX 554910
Ex-category	II 2G (with Ex barrier Part No. 804744 or 764744)
Explosion protection	Ex ib IIC T4 Gb

Common technical data:

Operating voltage	8 ... 42 V DC
Alarm current @ 9 V DC	typ. 18 mA
Air speed	0 ... 25.4 m/s
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 43 (incl. base + option)
Material	ABS
Color	white, similar to RAL 9010
Weight	approx. 110 g
Dimensions	Ø: 117 mm H: 49 mm (62 mm incl. base)



Detector bases are not supplied as standard.

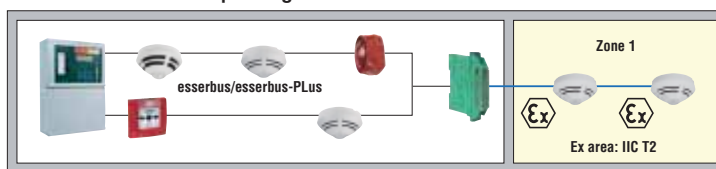
Additional detectors for the explosion zones can be found in the chapters manual call points and special detectors. Detailed information about installation and operation can be found in the documentation (Part No. 798920) on our website.

All of the following IQ8Quad explosion-proof fire detectors must be operated with the Part No. 805590 base. In the case of operation in standard zones, no individual addressing is possible!

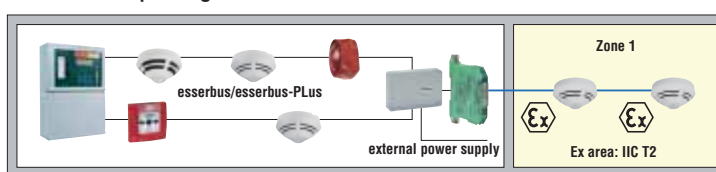
For usage in zone 1 and zone 2 in case of operation

- with individual addressing the Ex barrier Part No. 804744,
- in conventional zones the Ex barrier Part No. 764744 must be used!

The Ex barrier separates intrinsically safe and non-intrinsically safe circuits before the explosion prone area to be monitored (explosion zone).

Individual addressable operating

Ex barrier (Part No. 804744)

Conventional operating

Ex barrier (Part No. 764744)



esserbust transponder 4 zone / 2 relay

Application example

803271.EX



Rate-of-rise heat detector IQ8Quad Ex (i) w/o isolator

**Approval: VdS, ATEX**

Automatic heat detector with quick semiconductor sensor for the reliable recognition of fires with fast rate of temperature rise as well as integrated fixed temperature heat function for the recognition of fires with slow temperature rise. Intelligent fire detector with decentralized intelligence, automatic function self-test, emergency mode, storage of alarm and operating data, alarm display. Soft addressing and separate operational display is only possible when operating an esserbus / esserbus-PLus IQ8Quad detector without loop isolator, especially for usage in explosion zones. Operation with individual addressing at Ex barrier Part No. 804744 and as standard detector at Ex barrier Part No. 764744.

Technical Data

Quiescent current @ 19 V DC	approx. 40 µA
Area to be monitored	max. 30 m ²
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-5 A1R : 2002



Special marking for heat detector on light pipe: black ring

Accessories

805590 Standard detector base for IQ8Quad

803271.EX.F0



Rate-of-rise heat detector IQ8Quad Ex (i) w/o isolator, France

Same as 803271.EX, but French version.

803371.EX



Optical smoke detector IQ8Quad Ex (i) w/o isolator

**Approval: VdS, ATEX**

Scattered-light smoke detector for reliable early recognition of fires. Intelligent fire detector with decentralized intelligence, automatic function self-test, emergency mode, storage of alarm and operating data, alarm display. Soft addressing and separate operational display is only possible when operating an esserbus / esserbus-PLus IQ8Quad detector without loop isolator, especially for usage in explosion zones. Operation with individual addressing at Ex barrier Part No. 804744 and as standard detector at Ex barrier Part No. 764744.

Technical Data

Quiescent current @ 19 V DC	approx. 50 µA
Area to be monitored	max. 110 m ²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 70 °C
Detector specification	EN 54-7 : 2006

Accessories

805590 Standard detector base for IQ8Quad

803371.EX.F0



Optical smoke detector IQ8Quad Ex (i) w/o isolator, France

Same as 803371.EX, but French version.

803374.EX

O²T multisensor fire detector IQ8Quad Ex (i) w/o isolator**Approval: VdS, ATEX**

Intelligent detector with two integrated optical smoke sensors with different scattered-light angles as well as additional heat detector sensor evaluation for the recognition of smoldering fires up to open fires with uniform characteristics. Comparison of the heat sensor signals for smoke classification and reduction of false alarms, e.g. from steam or dust. Due to its excellent detection characteristics, the detector is also able to recognize TF1 and TF6 test fires, described in the standards. The O²T intelligent detector is also suitable for a higher operating temperature of up to +65 °C. Intelligent fire detector with decentralized intelligence, automatic function self-test, emergency mode, storage of alarm and operating data, alarm display. Soft addressing and separate operational display is only possible when operating an esserbus / esserbus-PLus IQ8Quad detector without loop isolator, especially for usage in explosion zones. Operation with individual addressing at Ex barrier Part No. 804744 and as standard detector at Ex barrier Part No. 764744.

Technical Data

Quiescent current @ 19 V DC	approx. 60 µA
Area to be monitored	max. 110 m ²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 65 °C
Detector specification	EN 54-7:2006 / -5B:2000 / A1:2002, CEA 4021

Accessories

805590 Standard detector base for IQ8Quad

803374.EX.F0

O²T multisensor fire detector IQ8Quad Ex (i) w/o isolator, France

Same as 803377.EX, but French version.

Accessories for IQ8Quad EX (i)

804744



Ex barrier for intrinsic safe detectors series IQ8Quad Ex (i)

**Approval: ATEX**

Ex barrier for the operation of intrinsically safe IQ8Quad Ex (i) series detectors directly on the esserbus/esserbus PPlus with individual addressing in connection with the detector base Part No. 805590.

Technical Data

Ambient temperature	-20 °C ... 60 °C
Type of protection	IP 20
Weight	approx. 100 g
Specification	EN 54-18:2005
Dimensions	W: 20 mm H: 107 mm D: 115 mm

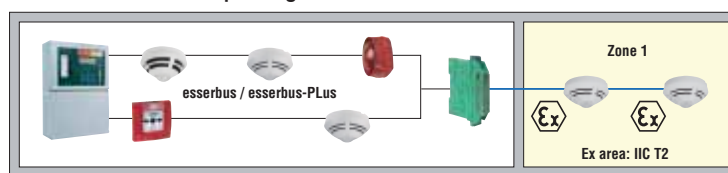


A safety barrier does not replace an overvoltage protection according to IEC 801, DIN VDE 0185 and 0855.

You can find more detailed information on the installation and the operation for IQ8Quad Ex (i) Series detectors in the documentation Part No. 798920.

System requirements

- Number of detectors up to max. 10 fire detectors per Ex barrier
- Max. 4 Ex barriers per loop.
- At least one esserbus device with a isolator must be installed between two Ex barriers.
- Total loop length up to max. 3,500 m.
- For each Ex barrier the total loop length must be reduced about 200 meters.
- Cable length (spur) within the Ex area max. 400 m per Ex barrier.
- Load factor 3 per Ex barrier (Use load factor calculation tool).

Individual addressable operating

Ex barrier (Part No. 804744)

Application example

764744



Ex barrier for intrinsic safe detectors series IQ8Quad Ex (i) and 9100



Approval: ATEX

Ex-barrier for the operation of intrinsically safe IQ8Quad Ex (i) series detectors in connection with the detector base Part No. 805590 as well as the 9100 Ex (i) series in connection with the detector base Part No. 781590.

Technical Data

Ambient temperature (Ta)
Dimensions

-20 °C ... 60 °C
W: 12.5 mm H: 115 mm D: 110 mm



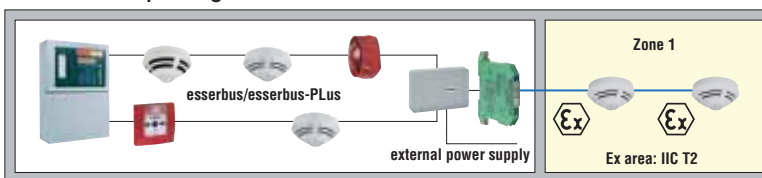
A safety barrier does not replace an overvoltage protection according to IEC 801, DIN VDE 0185 and 0855. VdS approval is not required.

You can find more detailed information on the installation and the operation in the documentation Part No. 798920 for IQ8Quad Ex (i) series detectors and Part No. 798913 for 9100 Ex (i) series detectors.

System requirements

- Number of detectors up to max. 8 fire detectors per zone.
- Loop length per zone up to max. 300 m. (Total length measured from the terminals of the detector zone).

Conventional operating



Ex barrier (Part No. 764744)



esserbus transponder 4 zone/2 relay

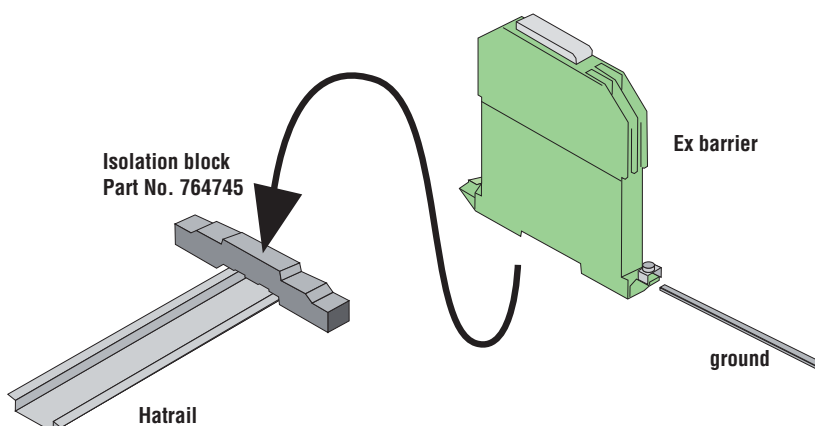
Application example

764745



Isolation and assembly block for safety Ex barrier

For insulated (earth-free) mounting of Part No. 764744 Ex barrier onto standard hat rail.



764752

**Housing for Ex barrier**

Polyester-housing for the installation of up to max. 10 Ex barriers with integrated inside mounting rail. Also for operational application under extreme environmental conditions suitable.

Technical Data

Type of protection	IP66
Housing	glass-fiber reinforced polyester
Color	gray, similar to RAL 7000
Dimensions	W: 255 mm H: 250 mm D: 160 mm



Mounting material

Features

- Chemically resilient
- Temperature resilient
- Flame retardant
- Non-corrosive
- Sea water resistant
- Non-halogen, UV resistant

764754

**Cable gland for housing 764752**

Threaded cable connection for housing Part No. 764752.

Technical Data

Ambient temperature	-20 °C ... 95 °C
Type of protection	IP66
Material	Polyamide
Color	blue, similar to RAL 9005
Cable diameter	8 mm

781590

**Standard detector base series 9x00**

Standard base for detector series 9000, 9100 and 9200, terminal for remote LED indicator (detector series 9000 requires adapter module Part No. 781487).

In conjunction with this standard detector base, 9100 Ex (i) series fire detectors can be operated exclusively without individual addressing (function as standard series 9000 detectors). An esserbus transponder for fire alarm systems (e.g. Part No. 808614) is required for connection to the series 8000 / IQ8Control fire alarm system. The use of the EED module (Part No. 784381) is not permissible.

Technical Data

Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 60 g
Dimensions	Ø: 89 mm H: 22 mm



Cable entry on the side or through bottom plate.

Safety barrier installation

The safety barrier (Part No. 764744) must be installed as close as possible to the ex area that is monitored (zone 1), for example in a housing (Part No. 764752) or in other suitable locations. The safety barrier earth must be connected to the equipotential bonding system (EBS) of the ex area.

781590.F0

**Standard detector base series 9x00, France**

Same as 781590, but French version.

781588

**Detector base with relay contact for series 9000**

Detector base with relay output, specially designed for series 9000 detectors. No option for two detector dependency.

Technical Data

Contact load	30 V DC / 1 A DC
Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 60 g
Dimensions	Ø: 89 mm H: 22 mm



Cable entry on the side or through the bottom plate.

783590.F0

**Standard detector base series 9000, France**

Detector base SE 2000, specially designed for series 2000.

Technical Data

Weight	approx. 60 g
Dimensions	Ø: 89 mm H: 22 mm

805590



Standard detector base for IQ8Quad



Features

- A lot of space for wire connection
- Automatic closing of the loop bus wiring system for detector extraction
- Detector extraction locking is enclosed in the base

Technical Data

Connection terminal	Ø 0.6 mm to 2 mm ²
Application temperature	-20 °C ... 72 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	<95 %
Material	ABS
Color	white, similar to RAL 9010
Weight	approx. 60 g
Dimensions	Ø: 117 mm H: 24 mm (incl. detector 62 mm)



Cable entry on the side or through the bottom plate.

Wago clamps for looping in wires, e.g. type 243-204 (Ø 0.5 mm - Ø 1.0 mm) or 273-104 (0.75 mm² - 2.5 mm²) can be mounted on the detector base.

805591



Detector base with relay contact for IQ8Quad



Features

- A lot of space for wire connection
- Automatic closing of the loop bus wiring system for detector extraction
- Detector extraction locking is enclosed in the base

IQ8Quad detector base with relay contact output. Contact: floating NO or NC contact selectable via jumper. Settings on site: NO contact.

Technical Data

Current consumption	5 µA (w/o detector, active relay)
Contact load relay	30 V DC/1 A
Connection terminal	Ø 0.6 mm to 2 mm ²
Application temperature	-20 °C ... 72 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	<95 %
Material	ABS
Color	white, similar to RAL 9010
Weight	approx. 80 g
Dimensions	Ø: 117 mm H: 24 mm (incl. detector 62 mm)



Cable entry on the side or through the bottom plate. Connection of remote indicators not allowed!

Wago clamps for looping in wires, e.g. type 243-204 (Ø 0.5 mm - 1.0 mm) or 273-104 (0.75 mm² - 2.5 mm²) can be mounted on the detector base.

Not suitable for application with IQ8Quad with integrated alarm device Part No. 802383, 802384, 802385 and 802386 as well as 802385.SVxx and 802386.SVxx!

Accessories for Series 9000 / 9100 / 9200

781495



Surface mount adapter for series 9x00



Surface mount adapter for premounting cables, with protection against dripping water and clips for locking detector bases 1x Part No. 781588, 781585, 781592, 801593 and Part No. 781590 as well as RAS 782103. Installation: clip onto board 781495 or use 2 screws/60 mm space, e.g. 4.0 x 30 DIN 96/plug S 6.

Technical Data

Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 30 g
Dimensions	Ø: 89 mm H: 20 mm (10 mm increase with detector)

781496



Detector locking for series 9x00



Protection against unauthorized detector removal for low ceilings with up to H = 3 m. Installation in detector bases 1x Part No. 781588, 781592, 781585, 781588 and 801593. According to the design approval, the locking is required for ionization smoke detectors.

Technical Data

Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 1 g
Dimensions	L: 6 mm W: 23 mm



In connection with adapter Part No. 781495, the protection level against dripping water is reduced.



10 pcs

781497



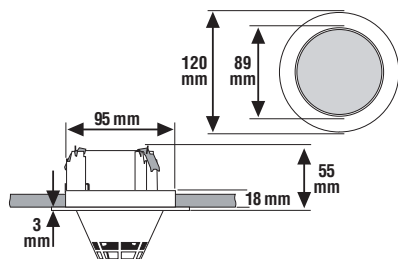
Flush mount base adapter for series 9x00



Adapter for mounting in ceilings and on suspended ceilings, with protection against dripping water and clips for locking detector bases 1x Part No. 781590 to 781594 and 801593, the mounted base is flush with adapter vent. Maximum plate thickness of 20 mm for suspended ceiling mounting.

Technical Data

Type of protection	IP42
Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 110 g



781498



Surface mount base adapter for series 9x00



Surface mounted base adapter for application with screwed cable glands or cable conduits with protection against dripping water, with 3 cable entries PG 11 and clips to lock detector bases 1x Part No. 781585, 781590 and 801593.

Technical Data

Type of protection	IP 43
Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 130 g
Dimensions	Ø: 110 mm H: 47 mm (80 mm pitch)

769803

**Detector dismantling tool for series 9000/9100/9200**

With the help of this special tool, detectors belonging to series 9000/9100/9200 can be opened and dismantled for cleaning by authorized installation staff.



For ionization smoke detectors see national regulation for protection against radiation!

781487

**Adapter module for base 781590**

Auxiliary wiring for detector base Part No. 781590 for connecting parallel indicators Part No. 781804 and 781814.

Technical Data

Dimensions

W: 38 mm H: 8 mm (each module)



This adapter module is exclusively designed for the operation with the standard fire detector base (Part No. 781590) planned in connection with series 9000 detectors.



10 pcs

789855

**Detector cover for detectors series 9x00 with base adapter**

For detectors with base adapters 1x Part No. 781497 and 781498 for protecting the detectors against contamination during construction or renovation works.



50 pcs

789856

**Detector cover for detectors series 9x00 and/or base**

For detectors with base, suitable for protecting the detectors against contamination during construction or renovation works.




50 pcs

Accessories for Series IQ8Quad

805588

**Detector cover for IQ8Quad w/o built-in alarm sounder**

The cover plate protects the IQ8Quad detector against contamination during construction or renovation works.

 The detector covers can only be used for IQ8Quad fire detectors without built-in alarm sounder! Application only for detector types with Part No: 802171, 802271, 802371, 802374, 802375 and 802473.

 50 pcs

805587

**Base cover for IQ8Quad**


The cover plate protects the IQ8Quad detector base against contamination during construction or renovation works.

 50 pcs

805589

**Detector cover for IQ8Quad with built-in alarm sounder**

The cover plate protects the IQ8Quad detector against contamination during construction or renovation works.

 The detector covers can only be used for IQ8Quad fire detectors with built-in alarm sounder! Application only for detector types with Part No: 802283, 802384, 802386 and 802385.

 50 pcs

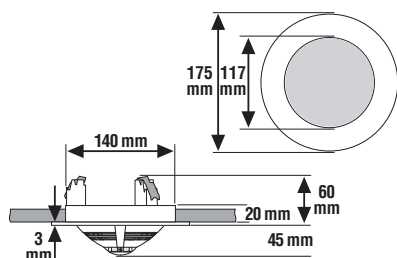
805571

**Flush mount kit for base IQ8Quad**

Adapter for installation in ceilings and for mounting the detector bases IQ8Quad (Part No. 805590 and 805591) to the bottom side of false ceilings.

Technical Data

Application temperature	-20 °C ... 72 °C
Storage temperature	-25 °C ... 75 °C
Type of protection	IP 40
Material	ABS, plastic
Color	white, similar to RAL 9010
Weight	approx. 165 g (with surface ring)



805574

**4" trim ring and snap-in mounting clips for IQ8Quad detector base**

Snap-in mounting clips and trim ring for base installation, e.g. for installation on 4" electrical boxes.

Technical Data

Material
Color
Dimensions

ABS plastic
white, similar to RAL 9010
Ø: 155 mm H: 19 mm (outside)



1 x Trim ring and 2 x snap-in mounting clips



Application example

805576

**Label plate for detector base IQ8Quad**

Before or after the installation of the detector, the label plate can be inserted at the side slot of the IQ8Quad detector base.



For identification purposes the detector can be provided with the detector address and detector zone for ceilings with a maximum height of 3 m.

A label can be attached to the inscription field. Blank labels can be marked when using a PC, e.g. SIGEL Part No. LP725-white (58 x 18 mm) or other suppliers of writing materials.

There is a help file in the download area for creating the printing material.

Applicable for base 1x Part No. 805590/91 with 805570; for 805593.10, 805594.10.

Not to be used for base 1x Part No. 805590/91 in combination with 805571, 805572, 805573, 805574.



10 pcs



Application example

805577

**Mounting adapter for intermediate ceilings**

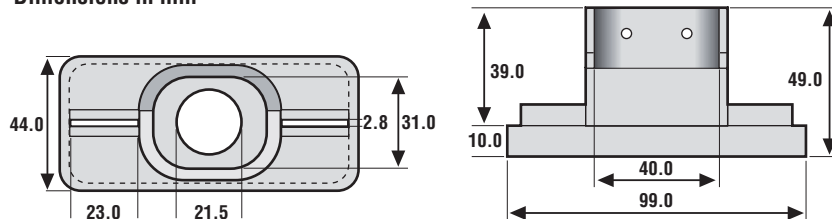
The mounting adapter is used for the quick and secure attachment of bases of the IQ8Quad detector series, 9x00, IQ8Alarm and alarm signaling devices, parallel detector indicators, etc. to suspended ceiling systems. It saves the usage of special hollow cavity fasteners, since the mounting screws of the bases are screwed directly into the slots of the mounting adapter. The mounting adapter offers additional advantages in the fixing of the cables, rigid/flexible cable inlays and threaded cable connections.

Technical Data

Material	ABS
----------	-----



10 pieces

Dimensions in mm

Application examples for fixing of the cables, rigid/flexible cable inlays and threaded cable connections

767800

**Mounting bracket for lintel installation**

Mounting bracket for all bases/detectors of the IQ8Quad group, series 9x00, RAS 2103 for IQ8Alarm including all alarm devices.

The distance between the mounting holes is 6 cm and the diameter is about 5 mm.

Technical Data

Material	aluminum
Color	white, similar to RAL 9010



Mounting bracket and installation material

781482

**Kit for suspended installation**

Kit for detector bases (Part No. 781590, 805590 and 805591) for suspended installation with pendulum stabilizer, cable entry at the top, pull relief by means of PG cable entry including junction box with terminals. The detector height can be adjusted individually depending on the cable length to bridge over the heat cushion below the ceiling.

Technical Data

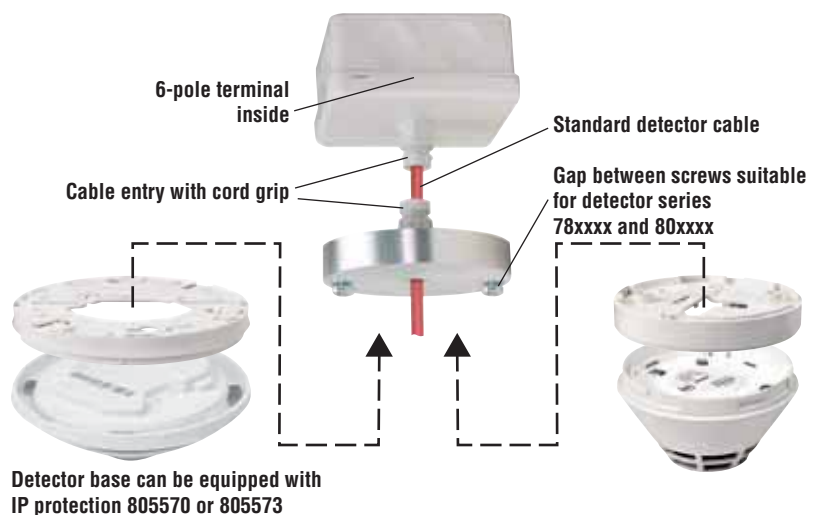
Material	ABS plastic
Installation	attached to the zone cable
Color	white, similar to RAL 9010
Dimensions	Ø: 84 mm H: 15 mm (aluminum-stabilizer)



It is not possible to use telescopic rods.
Not suitable for series 3000.



As shown in the left picture



781550

**Protective cage**

Protective cage for detectors

Steel basket for protection from damage and also unauthorized disconnection of the detector.

Technical Data

Material	steel with paint coating
Color	white, similar to RAL 9010
Dimensions	Ø: 140 mm H: 115 mm



Can be used with all bases, IP43 moisture-proof adapter, also for wireless base and wireless gateway.



Application example with IQ8Wireless detector base and IQ8Alarm

805570

**IP 43 protection for detector base IQ8Quad, flat design**

For installation in environments with dust and humidity. The IP protection protects the IQ8Quad detector base against dust and humidity. It increases the protection level to IP 43. For easy mounting to the base, the IP protection is provided with an adhesive film.

Technical Data

Type of protection	IP43
Material	SBR/NR
Color	white, similar to RAL 9010



10 pcs

805572

**IP43 moisture-proof surface-mounted base adapter for IQ8Quad**

The damp location base adapter was specifically designed for surface mount installation by means of cable conduits. The adapter is provided with three 20 mm (diameter) cable entries.

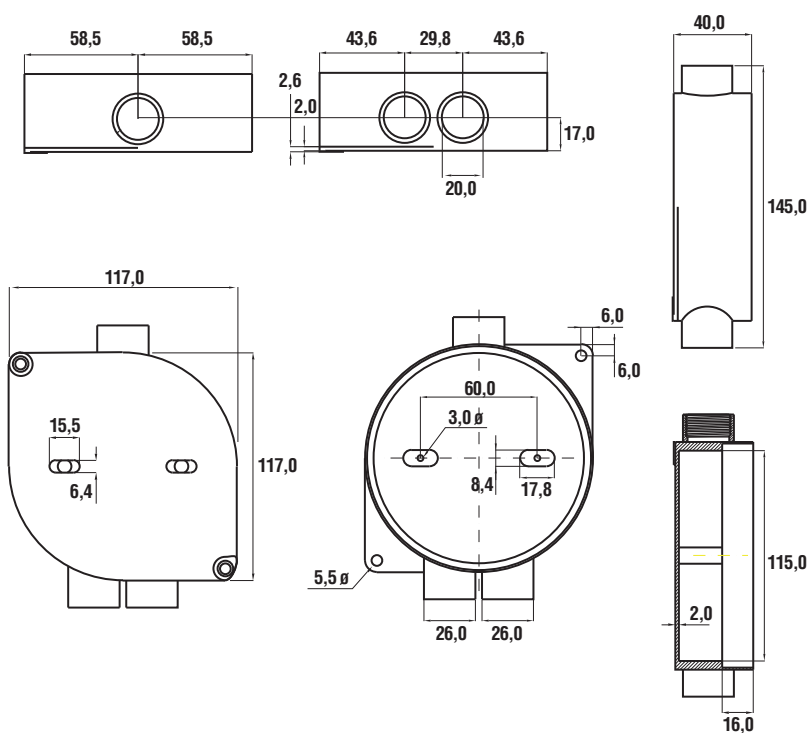
The built-in seal protects the adapter against condensed water.

Technical Data

Type of protection	IP43
Material	PC
Color	white, similar to RAL 9010



3 x Cable glands are included



Dimension drawing

805573

**IP 43 protection for detector base IQ8Quad, deep design**

Same as 805570, but as universal protection. Additionally, the seal prevents humidity from entering at the sides.

Technical Data

Type of protection	IP43
Material	rubber
Color	white, similar to RAL 9010



5 pcs

805560

**EMC shield for IQ8Quad detector base**

In fire alarm systems where a high electromagnetic interference/EMI load (e.g. by fluorescent lamps or electrical control devices) must be expected it is recommended to mount the EMI-Module in the standard detector base (Part No. 805590) of the corresponding fire alarm detectors.



The EMI-Module must only be operated in conjunction with standard IQ8Quad detector base (without relay board) and only for detectors without integrated alarm devices (Part No. 802382 to 802386, incl. adapted variants).



10 pcs

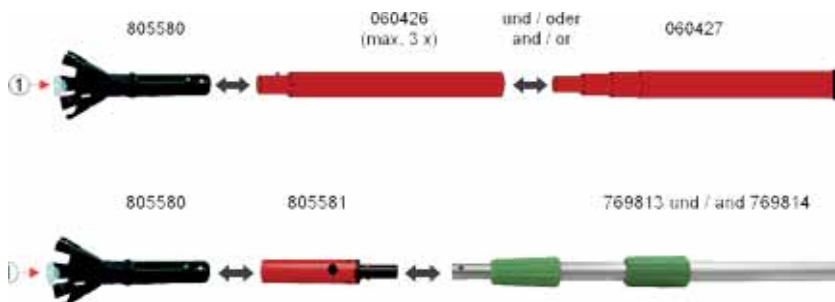


Accessories for Several Detector Series

805580

**Detector removal tool**

It is suitable for removing series 9x00 as well as IQ8Quad detectors. Through optional adaptation of the suction cup to the corresponding insert on the detector removal tool, the IQ8Quad detector covers (Part No. 805588 and 805589) and the base covers for IQ8Quad (Part No. 805587) can be attached as well as removed. The detector removal tool can be adapted to the telescope rod Part No. 060426 and 060427 as well as with Part No. 805581 to 769813.



Application example

805581

**Adapter for pole 769813**

The adapter for the pole (Part No. 769813) is designed for attaching the Part No. 805580 detector removal tool and the Part No. 805582 smoke detector tester.

805586



Carrying bag for test equipment



The carrying bag has many pockets and compartments in which the ESSER smoke alarm testers, test gas bottles, all cables and other maintenance accessories can be stored. So everything you need for maintenance can always be found in one place. The upholstered, adjustable shoulder strap ensures very easy and comfortable transport. An additional advantage: the bag protects equipment from dirt and moisture.

Technical Data

Dimensions

W: 480 mm H: 420 mm D: 260 mm (carrying bag)



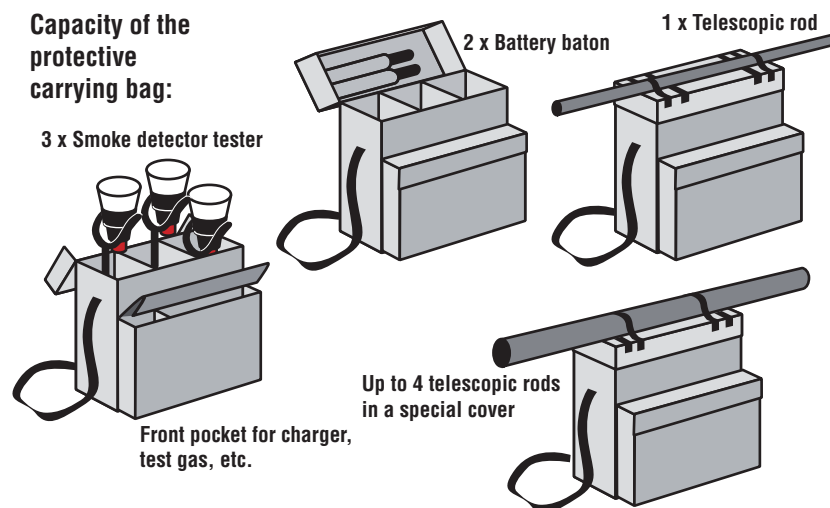
1 x Carrying bag and 1 x cover for telescopic rods/extensions

Features

- Exterior lid with Velcro fastening transportation straps for telescopic rod and extensions
- Inside lid with 2 storage compartments for battery backs Part No. 060431
- Inside compartment with up to three optional dividers
- Big front pocket, with up to two optional dividers
- Wide shoulder strap with sliding shoulder pad and additional handles
- Cover with carrying strap for up to 4 telescopic rods Part No. 060427 and/or extensions 060426



Capacity of the protective carrying bag:



Capacity of the carrying bag

060427



Plastic telescopic rod



Extendable detector pull-down pole made of glass-fiber reinforced plastic for adapting the Part No. 805580 detector removal tool as well as testers with Part No. 060429 and 805582.

Technical Data

Material
LengthFiberglass
4.5 m

Features

- Length of 1.26 m in retracted state
- 4 segments, lockable

060426

**Plastic telescopic extension**

Telescopic extension for plastic telescopic rod (Part No. 060427). Up to 3 telescopic extensions can be attached to the telescopic rod. The maximum height that can be reached is increased to 9 m.

**Technical Data**

Material
Length

Fiberglass
1.13 m

Features

- Easy aid for daily maintenance of high ceilings
- Stable construction
- Important for attaching and releasing detectors
- Extremely high level of flexural strength due to fiber-plastic composite material
- Totalock TM for easy and secure locking

805551

**Multi-stimulus detector tester TF 2001****Features**

- Generation of smoke, heat and CO in a single test unit
- Clearing cycle of the detector via integrated ventilator for better reset
- Simultaneous or sequential testing with various stimuli
- Suitable for single and multi-criteria fire detectors
- Suitable for smoke-, heat- and gas- (CO) detectors
- Targeted heat rays provide fast activation of heat sensors (up to 90°C/194°F, and/or adjustable up to 100°C/212°F)
- Test activation via infrared barrier, no mechanical triggering, no ceiling contact necessary
- Easy, fast and efficient testing, as changing of testing device is not necessary
- Multilingual and user-friendly menu control
- Battery operated portable device
- Environmentally friendly and safe through usage of test cartridges instead of test gas cans

Detector tester kit Testifire 2001 for the functional testing of point-type fire detectors with various sensors. The activating stimuli for smoke, heat and CO (carbon monoxide) are generated in this testing unit. Thus the changing of test tools for different types of detectors is no longer necessary.

All fire detector types can be tested with only one test instrument. The test tool is suitable for all optical smoke detectors, ionization detectors, CO detectors and heat detectors. It facilitates fast and effective testing of single and intelligent multisensor fire detectors. So testing of the different sensors can be carried out one after another or for all at the same time.

The required stimuli are generated on demand at the time of test from the corresponding capsule (smoke or CO). Pressurized gas cans are no longer being used.

The selection of the testing stimuli, as well as their combination and sequence are menu driven via keypad and are represented on the display (multilingual). So e.g. simultaneous or sequential testing, or also a combination thereof, can be easily programmed and then carried out at the detector. The activation of the testing device occurs automatically, as soon as the detector interrupts the light barrier integrated in the device. If necessary, a clearing phase can be chosen between the specific testing criteria that enables the stimuli to be blown out of the detector immediately for the next test by the integrated ventilator.

The currently active criterion is represented by a multi-colored LED indicator and is clearly recognizable even from large distances. The fill-level of the respective test resource capsules can be shown in the display. Warnings are indicated automatically e.g. if a capsule is nearly empty. The capsules offer much higher test capacities in comparison with aerosol cans.

The power supply of the testing head occurs via Ni-MH batteries (metal hydride batteries) in the adapter between testing head and telescopic rod. Charging of the battery occurs with the charger optionally via adapter (100-230 V AC) or via 12 V DC input (vehicle cigarette lighter).

Suitable for IQ8Quad and 9x00 detector series.

Technical Data

Battery charging	75-90 minutes
Heat detector response threshold	up to 90°C adjustable up to 100°C
Ambient temperature	5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Air humidity	< 85 % (non-condensing)



Detector tester kit Testifire 2001 consists of:

Testing head, smoke capsule, CO capsule, 2 Ni-MH battery packs, charger

Accessories

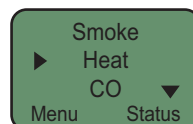
805552 Smoke capsule for multi-stimulus detector tester 805550/51

805553 CO capsule for multi-stimulus detector tester 805551 (Testifire TC3)

060426 Plastic telescopic extension

060427 Plastic telescopic rod

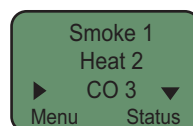
060431 Spare battery baton



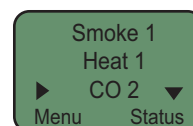
Example of testing with only one stimuli



Example of a simultaneous testing (smoke + heat at the same time)



Example of sequential testing (all criteria successively)



Example of combination of simultaneous and sequential testing

Selection of different test criteria displayed

805550

**Multi-stimulus detector tester TF 1001****Features**

- Creation of smoke and heat with one single test device
- Desmoking of detector via an integrated fan for fast resetting
- Simultaneous or successive testing with different activating materials
- Suitable for single and multi-criteria detectors
- Suitable for smoke and heat detectors
- Targeted heat radiation facilitates quick activation of the thermal sensors (up to 90°C/194°F and/or can be switched up to 100°C/212°F)
- Test activation through infrared barrier, no mechanical triggering, ceiling contact not necessary
- Quick, easy and efficient testing since there is no need to exchange test device
- Multilingual and user-friendly menu
- Portable battery-powered device
- Environmentally friendly and safe through usage of test cartridges instead of test gas cans

Same as 805551, but for testing of detectors with smoke and heat sensors. For testing CO consider multi-stimulus detector tester TF 2001 (Part No. 805551).

Technical Data

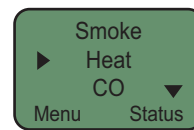
Battery charging	75-90 minutes
Heat detector response threshold	up to 90°C adjustable up to 100°C
Application temperature	5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Air humidity	< 90 % (non-condensing)



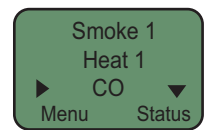
Detector tester kit TF 1001 consists of:
Testing head, smoke capsule, 2 Ni-MH battery packs, charger

Accessories

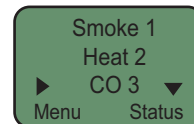
- 805552 Smoke capsule for multi-stimulus detector tester 805550/51
- 060426 Plastic telescopic extension
- 060427 Plastic telescopic rod
- 060431 Spare battery baton



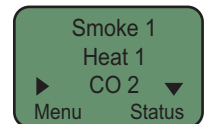
Example of testing with only one stimuli



Example of a simultaneous testing (smoke + heat at the same time)



Example of sequential testing (all criteria successively)



Example of combination of simultaneous and sequential testing)

Selection of different test criteria displayed

805552

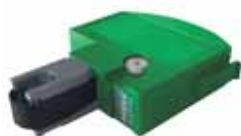
**Smoke capsule for multi-stimulus detector tester 805550/51**

Replacement smoke capsule (Testifire TS3) for the testing of smoke detectors series IQ8Quad and 9x00 with optical and/or ionization sensors. Suitable for the multi-stimulus detector tester Part No. 805550/51.

Features

- Non-flammable, non-toxic materials
- Production of test gas only during the testing
- Does not cause any residue in the sensor chamber
- Suitable for optical and ionization detectors
- No test gas storage under pressure – no dangerous goods
- More productivity than the spray can

805553

**CO capsule for multi-stimulus detector tester 805551**

Replacement CO capsule (Testfire TC3) for the testing of detectors with carbon monoxide sensors (CO). Especially suited for the OTG multisensor fire detector (CO) IQ8Quad with isolator (Part No. 802473). Suitable for the multi-stimulus detector tester Part No. 805551.



The OTG multi-sensor fire detector (CO) IQ8Quad with isolator (Part No. 802473) is generally tested either
-with the test gas Part No. 060430.10, suitable for the smoke detector tester Part No. 805582, or
-with Part No. 805552, suitable for the multi-stimulus detector tester Part No. 805551.

Features

- Non-flammable CO activating material
- Generation of small amounts of CO
- Generation of CO during testing only
- No storing of pressurized CO - no dangerous goods
- More productivity than the spray can

The Part No. 802473 is VdS-approved as a smoke detector, the CO test gas is required for the additional triggering of the electrochemical CO gas cell.

805582

**Smoke detector tester**

The smoke detector tester is designed for electric function control for the IQ8Quad and series 9x00 detectors. After an aerosol has been released, the operation capacity of the measuring chamber can be tested by using the transceiver. The smoke detector tester is adapted to the rod (Part No. 060427).



The telescopic rod is not supplied as standard.

Accessories

060426 Plastic telescopic extension
060427 Plastic telescopic rod

060430.10

**Test gas for smoke detector tester 805582**

For IQ8Quad and series 9x00 detectors, suitable for smoke detector tester Part No. 805582.

Technical Data

Content	250 ml (per bottle)
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Not suitable for series 9000, 9100 and 9200 ionization smoke detectors.
Please take note that this item has to be handled as dangerous goods (aerosols, non-flammable, UN1950)

805583

**CO test gas for smoke detector tester 805582**

Test gas for testing carbon monoxide CO-detectors. Specifically designed for the OTG multisensor fire detector (CO) IQ8Quad with isolator (Part No. 802473), suitable for smoke detector tester Part No. 805582.

Technical Data

Content	250 ml (per bottle)
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The OTG multisensor fire detector (CO) IQ8Quad with isolator (Part No. 802473) should only be tested in connection with test gas Part No. 060430.10 suitable for smoke detector tester Part No. 805582. Detector Part No. 802473 has been approved as smoke detector by VdS and the CO test gas is used to additionally trigger the electrochemical CO-gas cell.
Please take note that this item has to be handled as dangerous goods (aerosols, non-flammable, UN1950)

060429

**Test head for heat detector together with battery and charger****Technical Data**

Battery charging	75-90 minutes (if completely discharged)
Ambient temperature	5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Air humidity	< 85 % (non-condensing)



Test head, 2 battery batons, charger

Features

- Mains cable is not required for testing
- Power supply with rechargeable NiMH battery in the adapter of the telescopic rod
- Time based termination of testing after 120 seconds in order to prevent any heat-related damages of the detectors
- Detector head is switched off after not being used for 5 minutes
- Adjustable inclination angle of detector head for an optimal orientation towards the object which has to be tested
- Testing height up to 6 meters with telescopic rod and up to 9 meters with its extension device
- Excess-current protection for the battery
- Display of operating status of the detector head with Duo-LED (red/green)
- Battery can be charged via mains supply or via cigarette lighter in vehicles

Accessories

- 060426 Telescopic extension
060427 Plastic telescopic rod
060431 Spare battery baton

060431

**Spare battery baton**

Replacement battery pack (NiMH) for test head Part No. 060429 and 805551.

769870.20

**Smoke detector tester**

Smoke detector tester allows fast and reliable functionality testing for series IQ8Quad and 9x00 smoke detectors. Through reduced mechanically controlled actuation pressure, suspended installed detectors can also be tested. Control electronics guarantee a defined spray impulse. Spray can and batteries can be easily replaced.

Technical Data

Operating voltage	2 x 9 V batteries
Testing capacity	approx. 2000 applications / can



Telescopic rod Part No. 769813 is required.



- 1 x Test gas Part No. 769070
2 x 9 V batteries Part No 018051
1 x Bellows for IQ8Quad and 9x00

Accessories

- 769070 Test gas
018051 9 V battery

769871.20

**Conversion kit for smoke detector tester 769870/769870.10**

The conversion kit is used for the smoke detector tester (Part No. 769870 and 769870.10) to test the functions of IQ8Quad and 9x00 smoke detectors.

The conversion kit includes special contact fields to test smoke detectors and the associated expansion bellows.



Substitute for 769871!



1 x Bellows for series IQ8Quad and series 9x00

1 x Contact spring

3 x Fixing screws

769070

**Test gas for smoke detector testers 769870.20**

For series 9x00 and IQ8Quad detectors.

Technical Data

Content	150 ml (per bottle)
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CFC-free test gas, suitable for approx. 2000 applications.

Please take note that this item has to be handled as dangerous goods (aerosols, flammable, UN1950).

769813

**Telescopic rod**

For smoke detector tester Part No. 769870.20 (length 3.75 m, three pieces, locking devices).

Technical Data

Length	3.75 m
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769814

**Extension pole**

For smoke detector tester Part No. 769870.20, detector removal tool 805580 and telescopic rod Part No. 769813 (length 4 m, two pieces, locking devices).

Technical Data

Length	4 m
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769080

**Smoke pellets for testing purposes**

Pellets for the generation of dense bright smoke. To charge detectors with smoke for testing purposes and verification of air flow. The pellets are lit with an open flame (e.g. matches, lighter etc.). Extinguishing is not necessary. Please ensure the use of a non-flammable base. After ignition the pellet will burn to complete ash (without formation of flames).



Without oil



6 pcs. smoke pellets

Features

- 40 sec. burning-time per smoke pellet
- 18 m³ smoke produced per smoke pellet

Notes

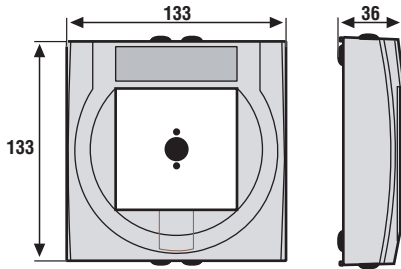


Manual Call Points

Large Design (ABS)	182-185
Large Design (Aluminum)	186-189
Accessories for Large Design	190-194
Small Design (ABS)	195-204
Special Design	205-207

Manual Call Points

Large Design (ABS)



Features

- Slimline design
- Plug-in connection clamps
- Optional terminal clamps
- 2 x cable entries on top, at the bottom and on the rear panel
- Fixing on standard flush mounted installation box
- Test function via manual call point service key
- Detectors that are not ready for operation can be marked with the "Out of order" label by reversing the enclosed operating front foil

The advanced generation of manual call points with fragile elements meets the latest multicultural requirements of the EN 54 - 11 standards as type B (double action). The elegant detector housing, available in 5 different RAL colors, is provided with a pictogram, which is easy to comprehend for foreign people, illiterates as well as children.

Depending on individual requirements, optional labeling foils can be used which can easily replace the pictogram without special tools. The triggering element is protected by a pane of glass and is indicated by arrows.

If required, optional labeling foils can be used, which can easily replace the pictogram. The triggering element is protected by a glass pane and is indicated by arrows. The innovative manual call points can be tested by using the service key to activate the triggering mechanism, which is hidden by a faceplate. Clever design structures allow easy installation.

The manual call points consist of a housing and an electronic module, each of the two parts must be ordered separately.



Type B definition - double action in accordance with EN 54-11 § 3.4.2 (excerpt taken from EN standard):

Manual fire alarm unit, for which the alarm status cannot be set until an alarm is additionally triggered by the user after the fragile element has been broken or its position has been changed.

Take note, for a LARGE MCP you have to order the electronic module and the MCP housing separately to have a complete MCP.

Not all possible combinations of electronic modules and housings are approved by VdS. When using the manual call point as a fire detector for manual actuation in compliance with the EN 54-11 standards, a red housing together with the provided pictogram must be used. When using the manual call point in heat exhaust or extinguishing system areas, the appropriate housing color must be chosen in compliance with the correct standards.

Wago clamps for looping in wires, e.g. type 273-100 (0.5 mm² - 1.5 mm²) or 273-104 (0.75 mm² - 2.5 mm²) can be mounted on the detector base.



MCP Out of order



Easy to maintain the change of condition by turning the operating foil



MCP Ready for use

Application example

Plastic Housings



Housings for electronic module 80490x.

Technical Data

Type of protection	IP44
Housing	ASA plastic
Installation	surface mount
Weight	approx. 83 g (w/o electronic module)
Dimensions	W: 133 mm H: 133 mm D: 36 mm



Housing with glass pane (704910)
Plastic key (769910)

Accessories

- 704910 Spare glass for manual call points
- 769910 Plastic spare key
- 769911 Metal key for large MCP
- 769916 Service key
- 704917 Option IP55 shrink sleeve for large MCP 80490x
- 704911 Universal foil for large MCP housing ABS

704900



Housing with glass pane, red, similar to RAL 3020



Pictogram according to EN54-11

Technical Data

Dimensions	W: 133 mm H: 133 mm D: 36 mm
------------	------------------------------



The red manual call point housing is only available with the pictogram (as shown) in compliance with EN 54-11.
Please note that in compliance with EN54-11 the labeling must come with the burning house symbol.

Piktogramm gemäß EN 54-11

704901



Housing with glass pane, blue, similar to RAL 5015



The Part No. 804902 electronic module in a blue housing complies with the EN 12094-3 and thus can be applied as an electronic stop button for gas extinguishing systems in dry, non-hazardous production sites.
For different use such as application as "HOUSE ALARM" push button, ready-made labels are provided.



Labeling foil set (white) for various international applications.

704902



Housing with glass pane, yellow, similar to RAL 1021



The Part No. 804900 or 804901 electronic module in a yellow housing 704902 complies with the EN 12094-3 and thus can be applied as electronic control module for gas extinguishing systems in dry, non-hazardous production sites.
For different use such as application as "HOUSE ALARM" push button, ready-made labels are available.



Labeling foil set (black) for various international applications.

704903



Housing with glass pane, orange, similar to RAL 2011



Labeling foil set (black) for various international applications.

704904



Housing with glass pane, green, similar to RAL 6002



Labeling foil set (white) for various international applications.

Electronic Modules

**Technical Data**

Operating voltage	8 ... 30 V DC
Alarm current @ 9 V DC	typ. 9 mA
No. of detector/zone	10 detectors per zone (according to VdS)
Alarm display	LED, red
Connection terminal	max. 2.5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP44 (in housing), IP55 (with accessory)
Housing	PC ASA plastic
Weight	approx. 236 g (with housing)
Detector specification	EN 54-11, Type B
Dimensions	W: 133 mm H: 133 mm D: 36 mm

804900

**Conventional MCP electronic module****Approval: VdS, CNBOP**

With alarm indicator, suitable for connection to a standard detector zone.



In combination with the yellow housing (Part No. 704902), the electronic module is approved as an electronic control unit for gas extinguishing systems.

The Part No. 804900 electronic module with yellow housing conforms to the EN 12094-3 standard and can be used as an electronic control unit for gas extinguishing systems in dry, non-hazardous industrial premises.

804901

**Conventional MCP electronic module with 2nd microswitch****Approval: VdS, CNBOP**

Same as 804900, but with second microswitch with dry contact NC/C (break) or NO/C (make) that is activated when the alarm is triggered.

Technical Data

Contact load	30 V DC / 1 A
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In combination with the yellow housing (Part No. 704902), the electronic module is approved as an electronic control unit for gas extinguishing systems.

The Part No. 804901 electronic module with yellow housing conforms to the EN 12094-3 standard and can be used as an electronic control unit for gas extinguishing systems in dry, non-hazardous industrial premises.

804902

**Conventional MCP electronic module w/o snap-on function****Approval: VdS with blue housing 704901**

Same as 804900, but without snap-on function.



This electronic module is only approved as an electric stop push-button for gas extinguishing systems when combined with the blue housing (Part No. 704901). The electronic module Part No. 804902 with blue housing complies with the EN 12094-3 standard and therefore it can be used as an electric stop push-button for gas extinguishing systems in dry, non-hazardous branches.

In case the manual call point is used as a "house alarm" push-button, pre-printed labels are provided in the manual call point package.

Electronic Modules for Series IQ8MCP

**Technical Data**

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current w/o communication curtain	approx. 18 mA
No. of detector/zone	10 detectors per zone, 127 detectors/loop (according to VdS)
Operation indicator	LED, green
Alarm display	LED, red
Connection terminal	max. 2.5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP 44 (in housing), IP 55 (with accessory)
Housing	PC ASA plastic
Weight	approx. 236 g (in housing)
Detector specification	pr EN 54-11, type B
Dimensions	W: 133 mm H: 133 mm D: 36 mm

804905

**IQ8MCP electronic module with isolator****Approval: VdS, CNBOP**

Addressable electronic module suitable for use in the esserbus and powered loop with alarm latch and alarm indicator. Optional connection for conventional MCP. Without BUS connection, the detector operates as conventional MCP. Built-in loop isolator in the manual call point. An external detector zone (D-line) could be connected with up to ten conventional manual call points (internal Alarm resistor for each detector 1 KOhm) - e.g. Part No. 804900 or 804901 to this IQ8 manual call point model and configure required operation with tools 8000. When an alarm is triggered the address and the programmed additional text of the MCP IQ8 to which the conventional zone is connected are displayed automatically. Cable length of the D-line max. 500 meters!

Technical Data

Type of protection	IP44 (in housing), IP55 (with accessory)
Detector specification	pr EN 54-11, typ B

804906

**IQ8MCP electronic module w/o isolator but with relay****Approval: VdS**

Addressable electronic module with floating contacts of a changeover relay NC/C (break) or NO/C (make), suitable for use in the esserbus and powered loop with alarm latch and alarm indicator. Without BUS connection, the detector operates as conventional MCP. Without built-in loop isolator and optional connection for conventional MCP.

The relay output is activated with the triggering of this detector. The relay output can be programmed in the System 8000 and IQ8Control FACP customer data as a control group.

Technical Data

Contact load relay	30 V DC / 1 A
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Both housing and electronic module need to be ordered. Not all possible combinations of electronic modules and housings are approved by VdS. The approved combinations are listed in the VdS approval field for the corresponding electronic module.

Electronic Modules for Series 9000

704477.10



MCP electronic module series 9000 with second micro-switch



Approval: VdS with housing 704801.10

Printed with pictograms in accordance with EN 54-11

Technical Data

Operating voltage	8 ... 30 V DC
Alarm current @ 9 V DC	typ. 9 mA
Contact load	30 V DC/1A
No. of detector/zone	10 detectors per zone (according to VdS)
Alarm display	LED, red
Connection terminal	0.6 ... 1.5 mm ²
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP43 (with housing) IP 54 (with housing and option 704070)
Weight	approx. 100 g (w/o housing)
Detector specification	EN 54-11, type B
Dimensions	W: 95 mm H: 95 mm D: 25 mm

Electronic Module for Series 9200

804473.10



MCP electronic module series 9200 with zone isolator



Approval: VdS with housing 704801.10

Printed with pictograms in accordance with EN 54-11

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current @ 9 V DC	typ. 9 mA
Alarm current w/o communication curtain	approx. 18 mA
Contact load	30 V DC/1A
No. of detector/zone	10/zone, 127/loop (VdS)
Alarm display	LED, red
Connection terminal	0.6 mm ... 1.5 mm ²
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP43 (with housing) IP 54 (with housing and option 704070)
Weight	approx. 100 g (w/o housing)
Detector specification	EN 54-11, type B
Dimensions	W: 95 mm H: 95 mm D: 25 mm

Aluminum Die-Cast Housings

**Technical Data**

Type of protection	IP43, IP54 with kit 704070
Material	aluminum, die-cast
Installation	surface mount
Weight	approx. 600 g
Dimensions	W: 126 mm H: 126 mm D: 42 mm



Housing with glass pane and plastic key, fixing material, 1 x multilingual "Out of order" paper insert, 2 x cable entries, 2 x dummy plugs

Accessories

704910	Spare glass for manual call points
769910	Plastic spare key
769911	Metal key for large MCP 80490x

704801.10

**Housing with glass, red, in compliance with EN 54-11**

Printed with pictograms in accordance with EN 54-11.

Technical Data

Type of protection	IP43, IP54 z 704070
Color	red, similar to RAL 3000

704801.11

MCP Housing ALU, red

printed with pictograms in accordance with EN54-11

Technical Data

Color	red, similar to RAL 3000
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704804

**MCP housing with glass, red, printed: house alarm****Technical Data**

Color	red, similar to RAL 3000
-------	--------------------------

704854

**MCP housing with glass, blue, printed: house alarm****Technical Data**

Color	blue, similar to RAL 5009
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704874

**MCP housing with glass, yellow, printed: house alarm****Technical Data**

Color	yellow, similar to RAL 1018
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704872

**MCP housing aluminum yellow, CO2 release****Technical Data**

Type of protection	IP 43, IP 54 with kit 704070
Material	aluminum, die-cast
Installation	surface mount
Weight	approx. 600 g



Alternatively in plastic housing: Part No. 704902 in connection with electronic module Part No. 804900 or 804901

Phase-out date: 30.09.2007

704873



MCP housing aluminum yellow, emergency stop



Technical Data

Type of protection

IP 43, IP 54 with kit 704070

Material

aluminum, die-cast

Installation

surface mount

Weight

approx. 600 g

Phase-out date: 30.09.2007

Neutral Housings w/o Printing

704800



MCP housing aluminum, red, neutral

Technical Data

Color red, similar to RAL 3000

704850



MCP housing aluminum, blue, neutral

Technical Data

Color blue, similar to RAL 5009

704870



MCP housing aluminum, yellow, neutral

Technical Data

Color yellow, similar to RAL 1018

704890

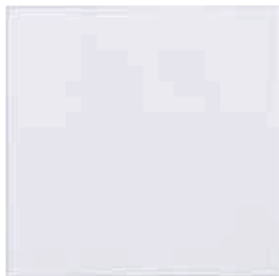


MCP housing aluminum, gray, neutral

Technical Data

Color gray, similar to RAL 7035

704910

**Spare glass pane for MCP housings 70490x, 7048xx, 761694 and 761697**

Spare glass pane for detector housings large design Part No. 70490x, 7048xx, 761694 and 761697 in compliance with EN 54-11.

Technical Data

Dimensions

W: 80 mm H: 80 mm



10 pcs

701040

**Spare glass pane red for MCP housings 7047xx and 7048xx**

Spare glass pane, printed with red circle segments (similar to RAL 3000) for all Part No. 7047xx and Part No. 7048xx manual call points (large design).

Technical Data

Dimensions

W: 80 mm H: 80 mm



10 Multilingual "Out of order" paper labels are included.



10 pcs

769921

**"Out of order" sign, multilingual for 7047xx, 7048xx and 70490x**

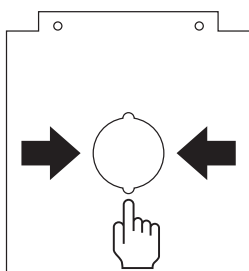
Plastic sign for all Part No. 7047xx, 7048xx and 70490x manual call points (large design).

Technical Data

Dimensions

W: 80 mm H: 80 mm

704915

**Operating panel foil for large MCP 80490x, neutral**

Replacement operating panel foil, neutral without logo, for large design Part No. 80490x manual call points in resistant plastic design. The foil is designed as a double-sided insert. Complementing the standards-compliant symbolism for manual fire alarms according to EN 54-11 (type B), it contains a symbol on the back for the removal from service of the alarm and is easily accessible at all times for possible maintenance operations. The "Out of order" representation occurs via an internationally understandable construction worker symbol and multilingual text.

Technical Data

Material

PP (0.3 mm)

Dimensions

W: 72 mm H: 75.7 mm



10 pcs.



MCP "Out of order"



Easy to maintain the change of condition by turning the operating foil.



MCP "Ready for use"

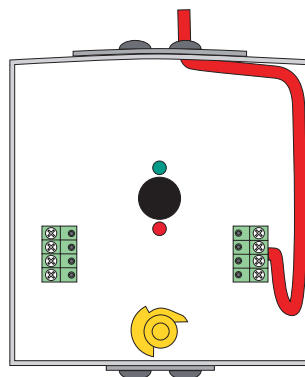
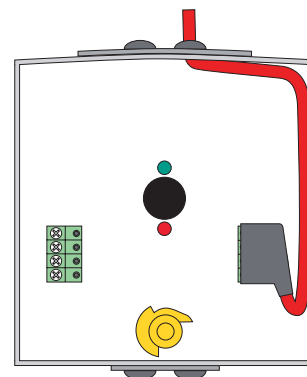
Application example

704917

**Option IP55 shrink sleeve for large MCP 80490x**

10 shrink sleeves for clamp terminals to increase protection class to IP55.

 10 pcs

**IP44****IP55**

Application example without (IP44) and with (IP55) shrink sleeve

704911

**Front foil with universal text for large MCP ABS, white lettering**

STOPP-TASTER Gaslöschanlage	Arrêt d'urgence extinction	Emergency Door Release Gas extinguishing system	AMOK-ALARM
RAUCHABZUG	Arrêt d'urgence Système d'extinction à gaz		
Prüfmelder	PARO EMERGENCIA Sistema de extinción	PARAGEM EMERGENCIA Sistema de extinção	POŻAR
Hausalarm	ONTRUIMING	BLUSSING BLOKKEREN Knop indrukken houden	Feuerwehr
Feuerwehr	Fogo	Fire	Fuego

similar image

Universal, punched foil set (transparent with white imprint) for the labeling field, different from the standard version.

 Transparent foil with white lettering.

 10 pcs

704912

**Front foil face with universal text for large MCP ABS, black lettering**

HANDAUSLÖSUNG Gaslöschanlage	MANUAL RELEASE Gas extinguishing system	Déclenchement extinction	AMOK-ALARM
RAUCHABZUG	BLUSSING ACTIVEREN Gas steklaan, knop indrukken	COMMANDE MANUELLE Système d'extinction à gaz	
Prüfmelder	START GASZENIA	DISPARO MANUAL Sistema de extinción	
Hausalarm	ODDYMIANIE	DISPARO MANUAL Sistema de extinção	744464

Same as 704911, but with black imprint.

 10 pcs

704070

**IP 54 kit for large MCP 7048xx**

Cable entries to increase protection class from IP 43 to IP 54 for manual call points in die-cast aluminum housings (Part No. 7048xx).

Technical Data

Material	PS
Color	gray, similar to RAL 7035
Cable diameter	6 mm

 as shown

769910

**Plastic key for large MCP**

Plastic key type D for all manual call points (large design).



Please note that for activating the test functionality of electronic modules (Part No. 80490x), the service key Part No. 769916 is required.



769911

**Metal key for large MCP**

Metal key type D for all detector housings (large design).



Please note that for activating the test functionality of electronic modules (Part No. 80490x), the service key Part No. 769916 is required.



769916

**Service key for electronic module (Part No. 80490x)**

With this metal service key, the test functionality of the manual call point is activated and reset by authorized persons only.

The key is suitable for all electronic modules with Part No. 80490x from index 05 and yellow locking.



781682

**Weather protective cover for MCP housings 7047/48xx, red**

Protective housing with protruding roof edge, for all Part No. 7047xx and 7048xx detector housings for increased mechanical protection as well as for protection from bad weather conditions.

Technical Data

Material	PVC
Color	red, similar to RAL 3000
Dimensions	W: 135 mm H: 153 mm D: 62 mm



Please mention for the manual call point, large design plastic (e.g. IQ8MCP), the protection cover Part No. 781693 and the related accessories.



Weather protective cover and mounting material



781692

**Weather protective cover for MCP housings 7047/48xx, blue**

Same as 781682, but blue color.

Technical Data

Color	blue, similar to RAL 5009
-------	---------------------------



Weather protective cover and mounting material



781693

**Protective cover for manual call points, German****Technical Data**

Ambient temperature	-40 °C ... 49 °C
Type of protection	IP 44
Material	Polycarbonate
Weight	approx. 590 g
Dimensions	W: 180 mm H: 260 mm D: 100 mm



This protective cover prevents false alarms, without hampering real alarms. This device consists of a rack and a lid, made of transparent polycarbonate. It prevents inadvertent activation, vandalism, dust and water from triggering false alarms. The protective cover is suitable for all manual call points.



Accessory for installation

Features

- Easy to install



Application example

781694

**Protective cover for manual call points, English**

Same as 781693, but English.

781695

**Protective cover for manual call points, French**

Same as 781693, but French.

**Technical Data**

Ambient temperature	-40 °C ... 49 °C
Type of protection	IP44
Material	Polycarbonate
Weight	approx. 590 g
Dimensions	W: 180 mm H: 260 mm D: 100 mm



Application example

781696

**Protective cover for manual call points, Italian**

Same as 781693, but Italian.

781697

**Protective cover for manual call points, Spanish**

Same as 781693, but Spanish.

781698



Surface spacer for protective cover



The spacer is required for surface mount wiring.

Technical Data

Weight

approx. 510 g

Dimensions

W: 180 mm H: 260 mm D: 50 mm



Accessory for installation

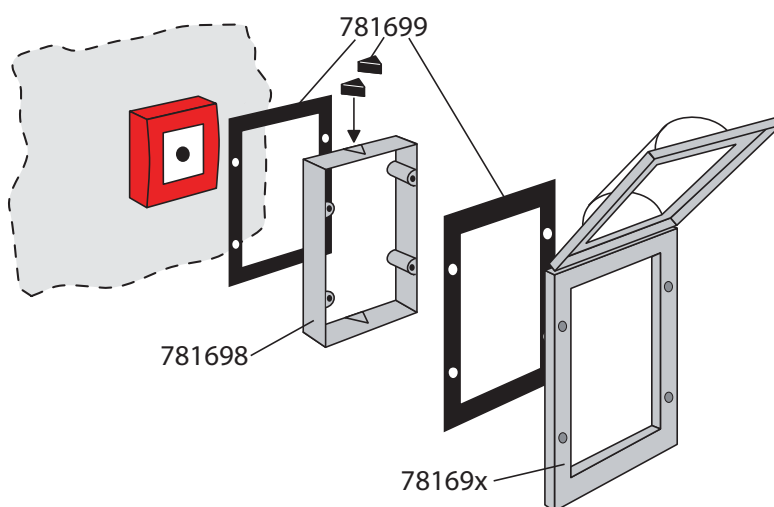
781699



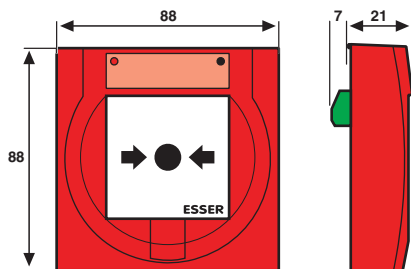
IP55 kit for protective cover



Mounting kit - self-adhesive sealing kit for protective cover (Part No. 781693, 781694) and an increased protection level from IP 44 to IP 55.



Application example



Features

- Slimline design
- Plug-in connection terminals (two direction)
- Optional terminal terminals
- Triple key function (test, open, reset)
- Detectors that are not ready for operation can be marked with the "Out of order" label by reversing the enclosed glass pane

The new generation of manual call points meets the latest multi-cultural requirements of the EN 54 - 11 standards as type A (single action). The elegant housing is provided with a pictogram, which can be understood by children as well as in an international context.

Depending on individual requirements, the pictogram can be easily replaced by optional labeling field foils without using additional tools for removal. The actuation field is marked by arrows pointing towards it. The innovative manual call points can be tested by using the key to activate the triggering mechanism, which is hidden by a faceplate. Smart housing and terminal design enables easy installation.



If the glass pane is replaced with the optionally available plastic pane with reset function, the MCP can be reset from the outside using the key.

For the surface mounting of the MCP the surface mount base Part No. 704980 must be ordered separately, if the cable wasn't laid about a standard flush mount wall socket.

Type a definition - single action in accordance with EN 54-11 § 3.4.1 (excerpt taken from EN standard):

Manual fire alarm unit, for which the alarm status is automatically set (additional alarm triggering is not required) after the fragile element has been broken or its position has been changed.

Compact MCP Versions

804970



Conventional MCP compact, small, with glass pane, red



Approval: VdS, CNBOP

Including housing and alarm indicator. For connection to a conventional detection zone.

Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 9 V DC	approx. 0 µA
Alarm current @ 9 V DC	typ. 9 mA
No. of detector/zone	10 detectors per zone (according to VdS)
Alarm display	red LED and yellow actuation indicator
Connection terminal	max. 2.5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP43, IP55 with cover 704965
Housing	PC ASA plastic
Color	red, similar to RAL 3020
Weight	approx. 110 g
Detector specification	EN 54-11, type A
Dimensions	W: 88 mm H: 88 mm D: 21 mm



Voor opbouwmontage moet de opbouwadapter type 704980 apart besteld worden.



- 1 x Glass pane 704960
- 1 x Key 704966
- 1 x Multilingual paper labels with "Out of order" pictogram.

Accessories

704980 Surface mount housing

804960

**Conventional MCP compact, red housing, with glass pane, IP66**

Including housing and alarm indicator. For connection to a conventional detection zone.

Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 9 V DC	approx. 0 µA
Alarm current @ 9 V DC	typ. 9 mA
No. of detector/zone	10 detectors per zone (according to VdS)
Alarm display	red LED and yellow actuation indicator
Connection terminal	max. 2.5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP43, IP55 with cover 704965
Housing	PC ASA plastic
Color	red, similar to RAL 3020
Weight	approx. 110 g
Detector specification	EN 54-11, type A
Dimensions	W: 88 mm H: 88 mm D: 21 mm

804971

**IQ8MCP compact, small, with isolator and glass pane, red****Approval: VdS, CNBOP**

Suitable for esserbus and powered loop connection, with soft address coding, alarm latch and alarm indicator. Conventional detectors can be connected to input of the MCP. Without BUS communication, the detector operates as conventional MCP. Detector housing is included.

Built in isolators maintaining loop integrity.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current w/o communication curtain	approx. 18 mA
No. of detector/zone	max. 127 detectors per loop (according to VdS)
Operation indicator	LED, green
Alarm display	red LED and yellow actuation indicator
Connection terminal	max. 2.5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP43, IP55 with cover 704965
Housing	PC ASA plastic
Color	red, similar to RAL 3020
Weight	approx. 110 g
Detector specification	EN 54-11, type A
Dimensions	W: 88 mm H: 88 mm D: 21 mm W: 88 mm H: 88 mm D: 57 mm (with surface mount housing)



1 x Glass pane 704960

1 x Key 704966

1 x Multilingual paper labels with "Out of order" pictogram

Accessories

704980 Surface mount housing

804971.VC0

**IQ8MCP compact with isolator, red housing, with glass pane, China**

Same as 804971, but Chinese version.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current w/o communication curtain	approx. 18 mA
No. of detector/zone	max. 127 detectors per loop (as per VdS)
Operation indicator	LED, green
Alarm display	red LED and yellow actuation indicator
Connection terminal	max. 2.5mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP 43, IP 55 with cover 704965
Housing	ASA-plastic
Color	red, similar to RAL 3020
Weight	approx. 110 g
Detector specification	EN 54-11, type A

804866.VC0



IQ8 fire hydrant push button with isolator, red, China

Approval: CCCF

Same as 804971.VC0, but with relay and input for triggering LED for operation and monitoring of hydrant pipe for extinguishing purpose within the building.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current w/o communication curtain	approx. 18 mA
No. of detector/zone	max. 127 detectors per loop (as per VdS)
Operation indicator	LED, green
Alarm display	red LED and yellow actuation indicator
Connection terminal	max. 2.5mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP 43, IP 55 with cover 704965
Housing	ASA-plastic
Color	red, similar to RAL 3020
Weight	approx. 110 g
Detector specification	EN 54-11, type A

804973



IQ8MCP compact, small, with resettable element and glass pane, red

**Approval: VdS**

Same as 804971, but with plastic triggering element, which supports easy reset after an alarm has been triggered without having to replace the broken element (glass pane). Typically applied in nursery, clean rooms as for example in food processing industries.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current w/o communication curtain	approx. 18 mA
No. of detector/zone	max. 127 MCP per loop
Operation indicator	LED, green
Alarm display	red LED and yellow actuation indicator
Connection terminal	max. 2.5mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP43 (in housing)
Housing	ASA plastic
Color	red, similar to RAL 3020
Weight	approx. 110 g
Detector specification	EN 54-11, type A
Dimensions	W: 88 mm H: 88 mm D: 21 mm W: 88 mm H: 88 mm D: 57 mm (with surface mount housing)



1x Plastic operating panel 704964

1x Key 704966

1x Multilingual paper insert with "Out of order" pictogram included

Accessories

704980 Surface mount housing

804973.F0



IQ8MCP compact, small, with resettable element and glass pane, red, France

**Approval: NF-SSI**

Same as 804973, but with NF marking.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current w/o communication curtain	approx. 18 mA
No. of detector/zone	max. 127 MCP per loop
Operation indicator	LED, green
Alarm display	red LED 1 / yellow tab
Connection terminal	max. 2.5mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP 43 (in housing)
Housing	ASA plastic
Color	red, similar to RAL 3020
Weight	approx. 110 g
Detector specification	EN 54-11, type A
Dimensions	W: 88 mm H: 88 mm D: 21 mm W: 88 mm H: 88 mm D: 57 mm (with surface mount housing)

See application example in Part No. 704964
With built-in isolator1x Plastic operating panel 704964
1x Key 704966
1x Multilingual paper insert with "Out of order" pictogram included**Accessories**

704980 Surface mount housing

804961



IQ8MCP compact with isolator, red housing, with glass pane, IP66

NEW**Features**

- High IP protection class IP66
- Integrated loop isolator
- Triple key function (test, open, reset)
- Plug-in connection clamps
- Detectors that are not ready for operation can be marked with the "out of order" label by reversing the enclosed glass pane

Approval: G 205132

Suitable for esserbus and powered loop connection, with soft address coding, alarm latch and alarm indicator. Without BUS communication, the detector operates as conventional MCP. Detector housing, surface mount housing and transparent cover are included.

Due to the high IP protection IP66 suitable for use in humid areas. Surface mount housing is provided with knock-out cable entries for M20 cable glands (option) for simplified installation.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current @ 9 V DC	typ. 18 mA
No. of detector/zone	10 detectors / group; 127 detectors / ring (according to VdS)
Operation indicator	LED, green
Alarm display	LED, red and yellow flag
Connection terminal	max. 1,5 mm ² (AWG 30-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP66
Housing	PC-ASA plastic
Color	red, similar to RAL 3020
Weight	approx. 250 g
Detector specification	EN 54-11, type A
Dimensions	W: 88 mm H: 88 mm D: 57 mm (with surface mount housing)



- 1 x Spare glass 704960
- 1 x Plastic spare key 704966
- 1 x transparent cover
- 1 x Surface mount housing



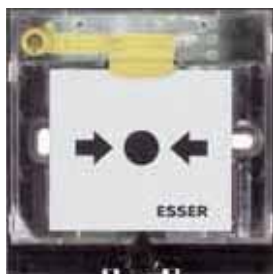
Example (optional fittings)

Electronic Modules

804950



Conventional MCP electronic module

**Approval: VdS**

With alarm indicator, for the connection to a standard detector zone.

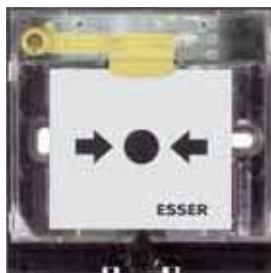
Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 9 V DC	approx. 0 µA
Alarm current @ 9 V DC	typ. 9 mA
No. of detector/zone	max. 10 detectors per loop (as per VdS)
Alarm display	LED, red and yellow flag
Connection terminal	max. 2,5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP 43 (in Housing), IP 55 with cover 704965
Weight	approx. 78 g
Detector specification	EN 54-11, type A
Dimensions	W: 88 mm H: 88 mm D: 21 mm W: 88 mm H: 88 mm D: 57 mm (with surface mount housing)



- 1 x Glass pane 704960
- 1 x Multilingual paper labels with "Out of order" pictogram

804951

**Conventional MCP electronic module, with 2nd micro-switch****Approval: VdS**

Same as 804950, but with second microswitch with dry contact NC/C (break) or NO/C (make) that is activated when the alarm is triggered.

Technical Data

Operating voltage	8 ... 30 V DC
Quiescent current @ 9 V DC	approx. 0 µA
Alarm current @ 9 V DC	typ. 9 mA
Contact load	30 V DC/1 A
No. of detector/zone	max. 10 detectors per loop (as per VdS)
Alarm display	LED, red and yellow flag
Connection terminal	max. 2.5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP 43 (in housing), IP 55 with cover 704965
Weight	approx. 78 g

804955

**IQ8MCP electronic module****Approval: VdS**

Same as 804971, but without housing.

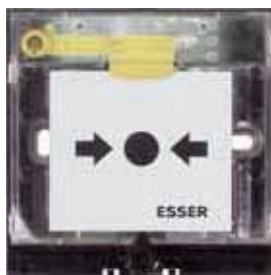
Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current w/o communication curtain	approx. 18 mA
No. of detector/zone	max. 127 detectors per loop (as per VdS)
Operation indicator	LED, green
Alarm display	red LED and yellow actuation indicator
Connection terminal	max. 2.5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP43 (in housing), IP 55 with cover 704965
Weight	approx. 78 g
Detector specification	EN 54-11, type A
Dimensions	W: 88 mm H: 88 mm D: 21 mm



1 x Glass pane 704960
1 x Multilingual paper labels with "Out of order" pictogram

804956

**IQ8MCP electronic module, w/o isolator, with relay****Approval: VdS**

Same as 804955, but with relay and without loop isolator or connection possibility for standard manual call points. The relay output is activated by the triggering of this detector. The relay output can be programmed in the IQ8Control and System 8000 FACP customer data as a control group.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
Alarm current w/o communication curtain	approx. 18 mA
Contact load	30 V DC / 1 A
No. of detector/zone	max. 127 detectors per loop (as per VdS)
Operation indicator	LED, green
Alarm display	LED, red and yellow flag
Connection terminal	max. 2.5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP43 (in housing), IP 55 with cover 704965
Weight	approx. 78 g

Accessories

704960

**Spare glass pane for small MCP, EN54**

Spare glass pane with white stick-on foil and printed pictogram in compliance with EN 54-11 (type A). Suitable for small MCPs.

Technical Data

Dimensions

W: 56 mm H: 49.5 mm D: 1.85 mm

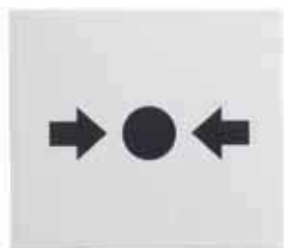


To indicate that the detector is "Out-of-order" the operator has a corresponding pictogram on the reverse side.



10 pcs

704975

**Spare glass pane for small MCP, EN54, neutral**

Spare glass pane with white stick-on foil and printed with pictogram according to EN 54-11 (type A), for small manual call points, without logo.

Technical Data

Dimensions

W: 56 mm H: 49.5 mm D: 1.85 mm



To indicate that the detector is "Out-of-order" the operator has a corresponding pictogram on the reverse side.



10 pcs

704964

**Resettable element for small MCP**

Resettable, white plastic, for small manual call points. Typically applied, for instance, in food processing industries or in clean rooms.

Technical Data

Material

ABS

Dimensions

W: 56 mm H: 49.5 mm D: 1.85 mm



To indicate that the detector is "Out-of-order" the operator has the same pictogram as shown above on the reverse side.



10 pcs



Application example

704961

**Front foil with universal text for small MCP, white lettering**

similar image

Universal, punched foil set (transparent with white imprint) for the labeling field, different from the standard pictogram.



Transparent foil with white lettering!



10 pcs

704965

**Protective kit for MCP and TAL, transparent**

Transparent, suitable for small MCPs. The cover serves as a protection to prevent inadvertent activation and to protect from high humidity.

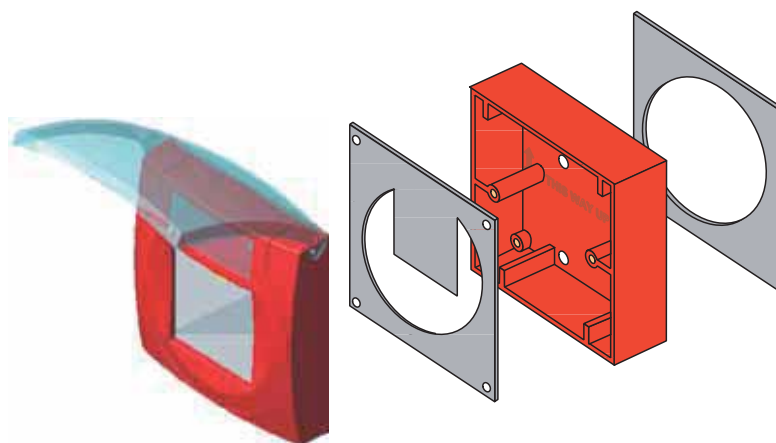
Technical Data

Type of protection
Material

IP55
plastic cover, transparent



Cover and two neoprene seals



Application example: Manual call point with mounted cover

704966

**Plastic spare key for small MCP**

10 pcs

Plastic key, red, suitable for small manual alarm units.

704967

**Mounting frame for small MCP, red and white**

The mounting frame is useful for mounting MCPs on different international flush mount boxes.

Technical Data

Color

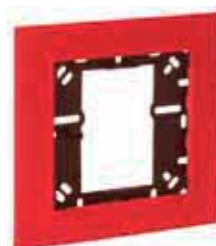
red, similar to RAL 3020
white, similar to RAL 9010

Dimensions

W: 132 mm H: 132 mm D: 8 mm



2 x Fastening screws are included (red and white)



or



Application example: Mounting frame with small MCP

Plastic Housings



Housings for electronic modules Part No. 80495x.

Technical Data

Type of protection	IP 43, IP 55 with 704965
Housing	PC ASA plastic housing
Installation	surface mount
Weight	approx. 33 g
Dimensions	W: 88 mm H: 88 mm D: 21 mm



1 x Key 704966

704950

**Housing for small MCP, red, similar to RAL 3020**

Pictogram according to EN54-11



The red manual call point housing is available only with the pictogram (as shown) according to EN 54-11.

Please note that according to EN54-11, the label for the MCP must include the symbol of the burning house.

704951

**Housing for small MCP, blue, similar to RAL 5015**

Labeling foil set (white) for various international applications.

704952

**Housing for small MCP, yellow, similar to RAL 1021**

Labeling foil set (black) for various international applications.

704953

**Housing for small MCP, orange, similar to RAL 2011**

Labeling foil set (black) for various international applications.

704954

**Housing for small MCP, green, similar to RAL 6002**

Labeling foil set (white) for various international applications.

704955

**Housing for small MCP, gray, similar to RAL 7035****Approval: VdS**

Labeling foil set (black) for various international applications.

Surface Mount Housings



The surface mount housing serves as cable entry for surface mount cabling. With integrated support for shielding.

Technical Data

Dimensions

W: 88 mm H: 88 mm D: 36 mm



Mounting material

704980



Surface mount housing for small MCP, red, similar to RAL 3020

Red, for manual call points Part No. 804970, 804971 and 804973, for small design electronic modules Part No. 804950/51, 804955/56 with housing Part No. 704950.

704981



Surface mount housing for small MCP, blue, similar to RAL 5015

Blue, for small design electronic modules Part No. 804950/51, 804955/56 with housing Part No. 704951.

704982



Surface mount housing for small MCP, yellow, similar to RAL 1021

Yellow, for small design electronic modules Part No. 804950/51, 804955/56 with housing Part No. 704952.

704983



Surface mount housing for small MCP, orange, similar to RAL 2011

Orange, for small design electronic modules Part No. 804950/51, 804955/56 with housing Part No. 704953.

704984



Surface mount housing for small MCP, green, similar to RAL 6002

Green, for small design electronic modules Part No. 804950/51, 804955/56 with housing Part No. 704954.

704985



Surface mount housing for small MCP, gray, similar to RAL 7035

Gray, for small design electronic modules Part No. 804950/51, 804955/56 with housing Part No. 704955.

761630

**LF-manual call point**

Manual activation point designed according to EN54-11 type B (double action) for manually triggering of hazard alarms. The device offers low-frequency data transmission over long distances of up to 20 km for monitoring passive third-party detectors and activation via terminal card Part No. 772180.

Technical Data

Operating voltage	24 V DC
Contact load	microswitch: max. 30 V DC / 1A
No. of detector/zone	10 detectors per zone (according to VdS)
Alarm display	LED red
Connection terminal	0.6 mm ... 1.5 mm ²
Application temperature	-30 °C ... 70 °C
Storage temperature	-35 °C ... 75 °C
Type of protection	IP 43, IP 54 with kit 704070
Housing	aluminum die-cast
Color	red, similar to RAL 3000
Weight	approx. 700 g
Dimensions	W: 126 mm H: 126 mm D: 42 mm



To operate the LF MCP 761630, terminal card Part No. 772180 is required.

This LF MCP must not be operated as a fire alarm detector for fire alarm systems in accordance with the standard EN54-11. It is suitable only for operation in hazard alarm systems as release device!

To indicate that the detector is "Out-of-order" the operator has to insert the paper inlay, which has a corresponding pictogram and wording.



- 1 x Glass pane 704910
- 1 x Plastic key 769910
- 1 x Fixing material
- 1 x "Out of order" sign
- 2 x Cable entries
- 2 x Dummy plugs

Accessories

704910 Spare glass pane, no imprint

772180

**Terminal card for LF MCP 761630**

Terminal card for LF MCP 761630, with indicators for alarm (red), wire break (yellow) and short circuit (yellow). Suitable for mounting on standard mounting rails.

Technical Data

Operating voltage	24 V DC
Quiescent current	approx. 5 mA
Alarm current	20 mA
Alarm display	LED red
Fault display	LED yellow
Connection terminal	0.6 mm ... 1.5 mm ²
Application temperature	0 °C ... 50 °C
Storage temperature	-5 °C ... 55 °C
Type of protection	IP 30
Housing	ABS plastic
Color	gray
Weight	approx. 300 g
Dimensions	W: 20 mm H: 85 mm D: 55 mm

761694

**Addressable MCP, IP66**

Addressable manual call point in conformity with EN 54-11 Type B with loop isolator for manually triggering fire alarms or hazard alarms. For outdoor application or application in damp environments.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 µA
No. of detector/zone	max. 10 (according to VdS), 127 / loop
Alarm display	LED, red
Connection terminal	max. 1.5 mm ²
Application temperature	-20 °C ... 70 °C
Storage temperature	-25 °C ... 75 °C
Type of protection	IP66
Housing	PC-plastic
Color	red, similar to RAL 3000
Weight	approx. 475 g
Dimensions	W: 135 mm H: 135 mm D: 61 mm



Please take note, our Part No. 769910 and 769911 can be used as spare keys.

To indicate that the detector is "Out-of-order" the operator has to insert the paper inlay, which has a corresponding pictogram and wording.



1 x Glass 704910

1 x Key and "Out of order" sign or "Außer Betrieb"

Accessories

704910 Spare glass for MCP

769910 Plastic key for large MCP

769911 Metal key for large MCP

Manual Call Points Intrinsically Safe

761697



Explosion-proof conventional MCP, IP66

**Approval: VdS, PTB 97 ATEX 3197**

Explosion-proof encapsulated conventional manual call point for hazardous areas in conformity with EN 54-11 Type B for the manual actuation of a fire alarm and/or a hazard alarm, as a detector for usage in explosion-hazardous areas both inside and outside.

The operating front foil has been designed as a double-sided insert. Complementary to the symbolism conforming to the standards for manual call points in compliance with EN 54-11 (Type B), it has a symbol and multilingual text on the back for the "Out of order" status of the detector and is always available for possible maintenance work.

The labeling foil of the manual call point also has a double-sided design. In compliance with EN 54-11, it contains the standard symbol of a burning house. On the back, the symbol is supplemented with the word "FIRE" (multilingual).

Technical Data**Data according to ATEX:**

Ex-category II 2G
Explosion protection Ex e d mb IIC T6, T5

Common technical data:

Operating voltage	12 ... 24 V DC
Alarm current	approx. 9 mA
No. of detector/zone	max. 10 detectors per Zone (according to VdS)
Circuit	1 k/10 k (internal)
Connection terminal	0.6 mm ... 4 mm ²
Application temperature	-55 °C ... 65 °C
	-55 °C ... 85 °C (T5)
Storage temperature	-55 °C ... 85 °C
Type of protection	IP66
Housing	Glass fiber reinforced polyester resin
Color	red, similar to RAL 3000
Weight	approx. 1.8 kg
Detector specification	DIN 14678 Form K
Dimensions	W: 136 mm H: 138 mm D: 88 mm



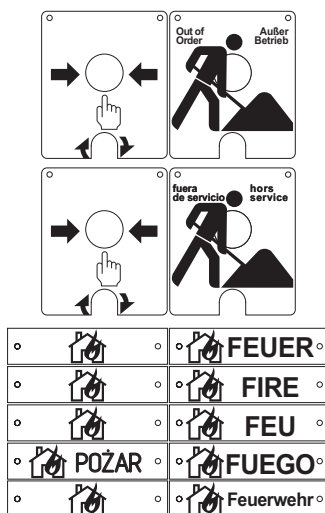
Please note, an Allen key (size 4) is needed for opening and resetting the MCP, and is not included in the scope of delivery.



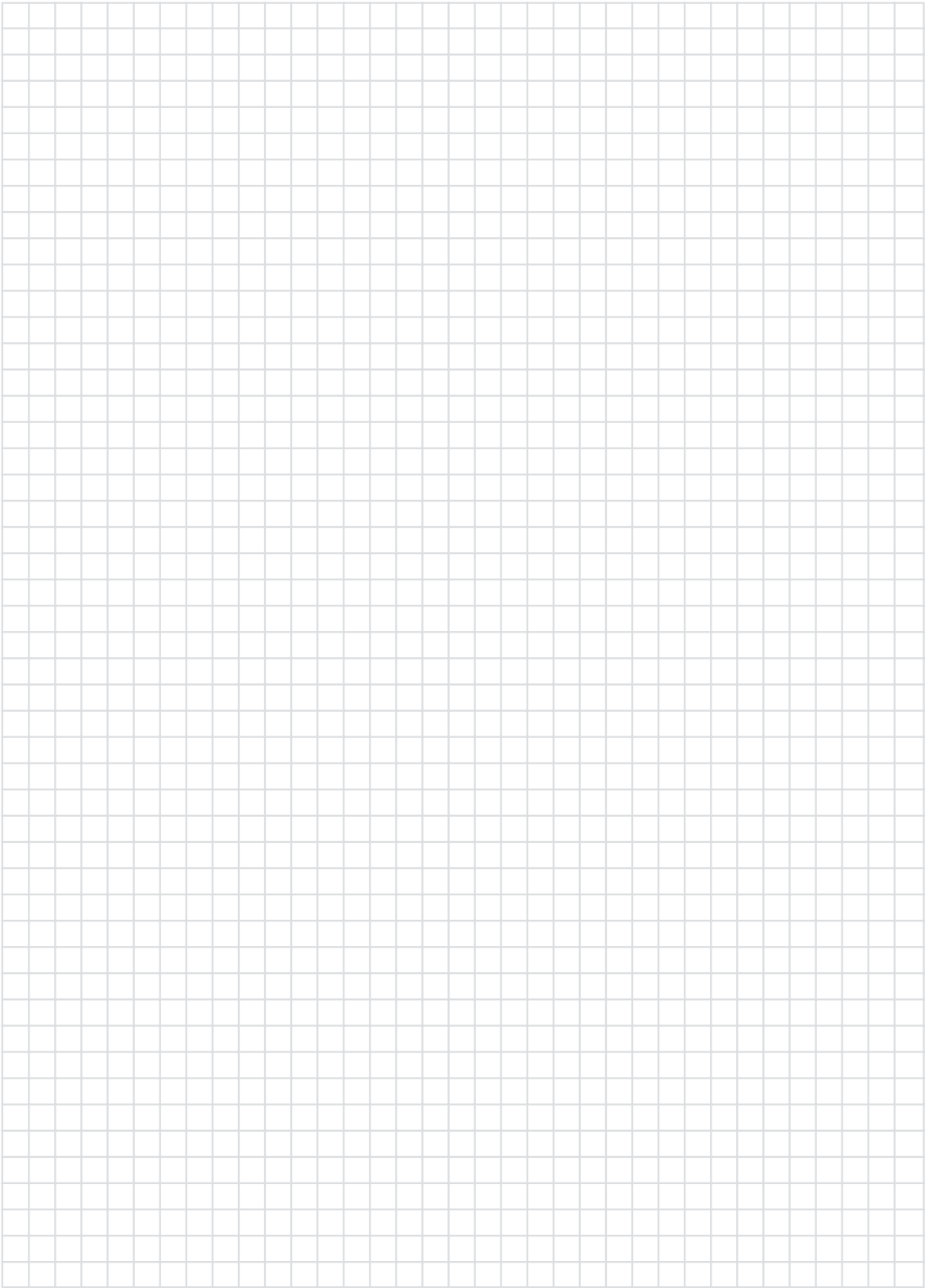
1 x Glass pane 704910
1 x Kit of double-sided operating front foil (with "Out of order" on the back)
1 x Kit of double-sided labeling foil (multilingual)

Accessories

704910 Spare glass pane for MCP housings



Operating front foils and labeling foils





Transponders

esserbus

210-222

Professional fire detection systems are expected to provide more than reliable fire detection and signaling alarms to the fire brigade. Over time, the continuous progress in technical units has led to many improvements in monitoring and control systems. At the same time the specifications of the European standards are becoming more and more demanding. These complex requirements towards control and monitoring of individual parts of a unit was reason enough to redesign our assortment of esserbus transponders.

Essentially the new assortment consists of the so-called "alarm transponder" which is used for both the connection of non-addressable detectors (point-type detectors, manual detectors and special detectors) as well as for the operation of conventional alarm signaling devices (signaling devices, signal flasher and combination alarm signaling devices). Monitoring of the lines in accordance with the latest standards is ensured via "EOL modules" (end-of-line modules).

The second part is formed by the "FCT" (fire control transponder) and the IQ8TAL being loop-powered input and output transponders with a contact input and a floating relay output for monitoring of contacts and transmission of technical alarms for equipment monitoring.

These modules are for interfacing to other disciplines which are not a part of the fire detection system itself. Thanks to their intelligent concept they significantly expand the range of monitoring and control functions as part of the building management.

Take note, esserbus transponders need ONLY ONE loop address per device.

808623



esserbus alarm transponder 4 IN/2 OUT



Features

- Only one loop address is needed per transponder
- Integrated line insulator
- Conventional connection of standard fire detectors and signaling devices
- Loop monitoring in compliance with EN 54-13
- Integrated line insulator
- Programmable relay outputs
- Programmable relay reset function
- Max. 100 transponders per FACP
- Max. 31 transponders per loop
- Max. 127 detector zones per loop
- Detector numbers per zone input of the transponder:
- Max. 30 conventional detectors (without SOC)
- Max. 10 conventional detectors (with SOC)
- Max. 10 Manual call points (MCP)
- Max. 10 Technical Alarm Modules (TAM)
- Max. 5 audible alarm devices per each output (observe calculation table in tools 8000)

Approval: VdS

The esserbus transponder functions as a device on the multi-functional primary line. The connection of four zones with automatic standard detectors, manual call points (non-addressable) as well as special detectors is possible. In addition, two programmable relay outputs are also available.

Both relay outputs of the transponder may be used to reset a connected third-party detector. The reset function relates to the corresponding special detector, e.g. by switching the appropriate input to GND or by a short interruption of the detectors supply voltage. Therefore the control mode >Reset-Relay< as well as the desired relay operation mode (normally closed or open) must be configured with the programming software tools 8000 from V1.15 and above. The relay output will be activated for the selected reset time (1 to 14 seconds) if the assigned input (G1 for relay 1/G2 for relay 2) of the transponder is reset. Refer to the detectors manual for the required reset time.

Monitoring via the EOL terminating devices (Part No. 808624/808626) is required for the connection of fire detectors and for the controlling of alarm signaling devices. The enclosed resistors can be used to connect the floating contacts.

The esserbus alarm transponder requires an external voltage supply. An optional Voltage Converter (Part No. 781336) is also required for 12V DC operation. The esserbus alarm transponder external voltage supply can be monitored during operation.

The EOL-I terminating device (Part No. 808626) must be used for standard-compliant monitoring of detector zone inputs. The EOL-O (Part No. 808624) must be used for standard-compliant monitoring of connected alarm signaling devices.

Technical Data

Operating voltage	10 ... 28 V DC
Quiescent current @ 12 V DC	approx. 12 mA
Current consumption	max. 120 mA @ 12 V DC
Contact load relay	30 V DC / 1 A
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (in housing)
Weight	approx. 28 g
CE certificate	0786-CPD-20947
Dimensions	W: 82 mm H: 72 mm D: 20 mm



Installation accessory pack

Accessories

788603.10	Module housing for snap-on mounting rail
788600	Housing surface mount, gray
788650.10	Housing surface mount, white
788601	Housing flush mount, gray
788651.10	Housing flush mount, white
788612	Loop isolator for transponder
781336	DC/DC converter output voltage
808624	EOL-O Terminating device
808626	EOL-I Terminating device

808623.F0



esserbus alarm transponder 4 IN/2 OUT, France

Same as 808623, but French version.

808623.10



esserbus transponder for UniVario

NEW



Features

- Loop monitoring in compliance with EN 54-13
- Integrated line insulator
- Programmable relay outputs
- Programmable relay reset function
- Max. 100 transponders per fire alarm control panel
- Max. 31 transponders per loop
- Max. 127 detector zones per loop
- Detector numbers per zone input of the transponder:
- Max. 30 conventional detectors (without SOC)
- Max. 10 conventional detectors (with SOC)
- Max. 10 Manual call points
- Max. 10 Technical Alarm Modules (TAM)
- Max. 5 audible alarm device (observe calculation table in tools 8000)

Approval: VdS

The interface connects max. 2 industrial sensors from the UniVario product range. These sensors are supplied with energy via the 9 V DC group voltage input. For meeting the standard requirements of monitoring, an EOL-UV terminal element is connected to the sensor base of the UniVario sensor. The interface requires external voltage supply. Additionally, two optionally monitored relay outputs are available.

Technical Data

Operating voltage	10 ... 28 V DC
Quiescent current @ 12 V DC	approx. 12 mA
Current consumption	max. 120 mA @ 12 V DC
Contact load relay	30 V DC / 1 A
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (in housing)
Weight	approx. 28 g
CE certificate	0786-CPD-20947
Dimensions	W: 82 mm H: 72 mm D: 20 mm



Installation Accessory Pack

Accessories

788603.10	Module housing for snap-on mounting rail
788600	Housing surface mount, gray
788650.10	Housing surface mount, white
788601	Housing flush mount, gray
788651.10	Housing flush mount, white
788612	Loop isolator for transponder
781336	DC/DC converter output voltage
808626	EOL-I Terminating Device

808624



EOL-O terminating device



Features

- Used for monitoring of control outputs with conventional alarm signaling devices being connected
- Additionally recognizes creeping interruptions and short-circuits
- Loop monitoring in compliance with EN 54-13

The EOL-O terminating device is mounted on the last control input device in the detector zone and is used to monitor alarm signaling devices.

808626



EOL-I terminating device



Features

- Used for monitoring of detector zone inputs with standard fire detectors being connected
- Additionally recognizes creeping interruptions and short-circuits
- Loop monitoring in compliance with EN 54-13

The EOL-I terminating device is mounted on the last device in the detector zone and is used to monitor detector zone inputs.

808626.10



EOL module for 808623.10 (EOL-UV)

NEW



The EOL-UV terminating device is mounted on the last device in the detector zone and is used to monitor detector zone inputs.

Features

- Used for monitoring of detector zone inputs with standard fire detectors being connected
- Additionally recognizes creeping interruptions and short-circuits
- Loop monitoring in compliance with EN 54-13

808600.230

esserbus transponder FCT set 230 V



Features

- 230 V AC operation with optional function monitoring
- Comprehensive fail-safe function during failure of the loop or mains voltage
- Freely programmable relays
- Monitoring contacts for monitoring of external devices
- Time-dependent control of relay outputs
- Optional: relay outputs with programmable impulse lengths
- Reduction of amount of data via selectable software function
- Integrated loop isolator
- Optional IP protection base for usage in difficult ambient conditions

Approval: VdS

The FCT is used for the monitoring and operation of fire control systems such as ventilation, pressure monitor pumps, extinguishing agent sprinklers, fire dampers, smoke control flaps, elevators and many more. Time-dependent machine shutdowns can be carried out via two freely programmable relays. The pluggable modules (up to two modules can be connected) are each equipped with a contact input for operational feedback.

The comprehensive "fail-safe" function ensures that the transponder maintains full functionality and remains a self-sufficient activation device even if the FACP or field bus fails.

Using the 230 V version the mains voltage can be switched directly and be simultaneously used to power the transponder. It is also possible to indirectly monitor the function of the mains voltage using internal logic.

The esserbus transponder FCT 12-24 V or 230 V is used as a loop device for the IQ8Control or FlexES control FACP. The tools 8000 programming software (as of version V1.15.1) is necessary for the start-up.

Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Rated current	0.01 A
Contact load relay	30 V DC/4 A, 230 V AC/4 A
Connection terminal	max. 2,5 mm ²
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP30 (in housing) IP55 (with IP-base composition 788655)
CE certificate	0786-CPD-20991
Dimensions	W: 235 mm H: 61.5 mm D: 140 mm



The FCT cannot be operated in the following systems:
FACP 80, System 3000 (FACP 3007/3008), FACP 8008, FACP 8000 C/M, ECP 8010



1 x FCT control module
1 x FCT electronic module
1 x Surface mounted housing

808600.24

esserbus transponder FCT set 12 - 24 V

**Approval: VdS**

Same as 808600.230, but 24 V operating voltage.

Technical Data

Operating voltage	10 ... 30 V DC
Current consumption @ 12 V DC	approx. 200 mA
Contact load relay	30 V DC/4 A, 230 V AC/4 A
Connection terminal	max. 2,5 mm ²
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP30 (in housing)
CE certificate	IP55 (with IP-base composition 788655) 0786-CPD-20991



The FCT cannot be operated in the following systems:
FACP 80, System 3000 (FACP 3007/3008), FACP 8008, FACP 8000 C/M, ECP 8010

804981

IQ8FCT electronic module



Pluggable electronic module for FCT expansion with another monitoring contact input.

Technical Data

Quiescent current @ 19 V DC	approx. 45 µA
Alarm current	approx. 9 mA
No. of detector/zone	max. 127 per loop
Operation indicator	green LED
Alarm display	red LED
Connection terminal	max. 2,5 mm ² (AWG 26-14)

Features

- Tool-free installation on the FCT through simple connection of the module
- Contact input for monitoring fire event controls
- Addressable for individual localization of the fire event control
- Integrated line isolator

788655

IP55 base adapter for FCT



IP FCT base adapter for extreme environmental conditions.

Technical Data

Type of protection	IP55
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808610.10

**esserbus transponder 12 relays (8 bit)****Features**

- Only one loop address is needed per transponder
- Max. 100 transponders per FACP
- Max. 32 transponders per loop
- Max. 32 transponders per detector zone

Approval: VdS, CNBOP, BOSEC

The esserbus transponder works as a loop device on the multi-functional primary line. With the 12 relays module, it is possible to expand the number of exits per control unit. Depending on the control unit, it can be integrated or used with fire detectors in mixed operation. The esserbus transponder can be optionally extended by adding the additional isolator board Part No. 788612. esserbus transponder voltage supply: via the multi-functional primary line. The esserbus transponder can be wired with an external switching voltage of 12V DC or 24V DC for the K1 to K12 relays. The external voltage supply of the transponder can be programmed to be monitored in the customer data in the operating mode. In the “floating” operating mode, no external switching voltage of the relays is necessary. 11 relays are freely programmable. The maximum line length from the transponder to the external device is up to 1000 m.

Technical Data

Operating voltage	10 ... 28 V DC
Current consumption @ 12 V DC	approx. 3 mA
Contact load relay	30 V DC / 1 A (max. 3 A each transponder)
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (with housing)
Weight	approx. 110 g
Dimensions	W: 150 mm H: 82 mm D: 20 mm

Accessories

788612	Loop isolator PCB
788600	Surface mounting housing gray, similar to RAL 7035
788650.10	Surface mounting housing white, similar to RAL 9003
788601	Flush mounting housing gray, similar to RAL 7035
788651.10	Flush mounting housing white, similar to RAL 9003

808611.10

**esserbus transponder 32 LED****Features**

- Only one loop address is needed per transponder
- Max. 100 transponders per FACP
- Max. 32 transponders per loop
- Max. 32 transponders per detector zone

Approval: VdS, CNBOP, BOSEC

The esserbus transponder works as a loop device on the multi-functional primary line. 32 outputs for direct LED control (e.g. indicator) are found on this esserbus transponder module. There is one terminal screw per output on the switching mechanism. The module can be extended by adding the additional isolator board Part No. 788612. esserbus transponder voltage supply: via the multi-functional primary line. The esserbus transponder requires an external power supply.

The external voltage supply of the transponder can be programmed to be monitored in operating mode. The maximum line length from the transponder to the external device is up to 100 m.

Technical Data

Operating voltage	10 ... 15 V DC
Quiescent current @ 12 V DC	approx. 3 mA
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (with housing)
Weight	approx. 95 g
Dimensions	W: 150 mm H: 82 mm D: 20 mm

Accessories

788612	Loop isolator PCB
788600	Surface mounting housing gray, similar to RAL 7035
788650.10	Surface mounting housing white, similar to RAL 9003
788601	Flush mounting housing gray, similar to RAL 7035
788651.10	Flush mounting housing white, similar to RAL 9003

808613.30



esserbus transponder SIE for 3rd party extinguishing panels



Features

- Only one loop address is needed per transponder
- Max. 100 transponders per FACP
- Max. 31 transponders per loop
- Max. 32 transponders per detector zone

Approval: VdS

The esserbus transponder SIE is designed for operation as Standard Interface Extinguishing (SIE) for the analog loop (esserbus / esserbus-PLus) of the Fire Alarm System 8000 and IQ8Control.

An external power supply of 12 V DC or 24 V DC can be connected to the esserbus transponder. The voltage converter (Part No. 781336) is required for 12 V DC operation. The transponder's external voltage supply can be programmed with supervision.

Technical Data

Operating voltage	10 ... 28 V DC
Quiescent current @ 12 V DC	approx. 10 mA
Current consumption	max. 120 mA
Contact load relay	30 V DC/1 A
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (with housing)
Weight	approx. 28 g
Dimensions	W: 82 mm H: 72 mm D: 20 mm



1 x Additional equipment pack with 3.3 k and 680 R terminating resistor for SST

Accessories

788603.10	Module housing for C-mounting bar or top hat rail mounting
788600	Housing surface mount, gray
788650.10	Housing surface mount, white
788601	Housing flush mount, gray
788651.10	Housing flush mount, white
788612	Loop isolator PCB
781336	DC/DC converter output voltage

808615



esserbus communication transponder for panel 8010



With this esserbus transponder the extinguishing relay output 8010 can be integrated on the bus of panel 8000, IQ8Control and FlexES, thus enabling several extinguishing zones to be networked with each other. On each bus, a maximum of eight 8010 extinguishing relay outputs can be operated and a maximum of 16 communication transponders for each FACP8000 C/M, IQ8Control and FlexES. All indicators and controls can be activated from the fire alarm panel. The communication transponder occupies one address on the esserbus.

Technical Data

Current consumption	max. 28 mA
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (with housing)
Weight	approx. 28 g
Dimensions	W: 72 mm H: 65 mm D: 20 mm



Mounting: in the housing of the 8010 extinguishing relay output



Including loop isolator PCB (Part No. 788612)

808619.10



esserbus FSA transponder for fire doors



Features

- Only one loop address is needed per transponder
- Usage of series 9200 intelligent detectors (such as OT, OTI, O²T detectors) as FSA detectors is possible
- Connection of IQ8Quad O detectors (Part No. 802371), TD Detectors (Part No. 802271), OT detectors (Part No. 802373) and O²T detectors (Part No. 802374) (DIBt-approved) as FSA detectors is possible
- FSA detectors programmable as devices in the loop
- Status indicator of door arrester system to the FACP
- Actuation of the locking device also via the automatic fire detectors in non-FSA operation
- Stand-alone operation of the FSA transponders is possible
- Usage of IQ8Quad O detectors (Part No. 803371), TD detectors (Part No. 803271) and O²T detectors (Part No. 803374) in stand-alone operation of the FSA transponders to the standard detector group is possible
- Max. 100 transponders per FACP
- Max. 32 transponders per analog loop
- Max. 127 detector zones per analog loop
- Detector numbers per zone input of the transponder:
 - Max. 30 conventional detectors (without SOC)
 - Max. 10 conventional detectors (with SOC)
 - Max. 10 Manual call points
 - Max. 10 Technical Alarm Modules (TAM/TAL)

Approval: VdS

The transponder is suitable for usage for various applications: in stand-alone operation or on the esserbus. In esserbus operation, the Series 9200 automatic fire detectors and those of the IQ8Quad family (see features for types) can be used as detectors in door arrester systems (FSA - Fire, Failure and Shut-Off). In FSA transponder loop operation, the door arrester system status is indicated on the fire alarm control panel.

For stand-alone operation, detectors of the IQ8Quad family are supported without loop isolator (see features for types).

For operation, the transponder requires an external supply voltage. It is possible to monitor this voltage.

Technical Data

Operating voltage	10 ... 28 V DC
Quiescent current @ 12 V DC	approx. 6 mA (from UB ext)
Current consumption	max. 28 mA (from UB ext)
Contact load relay	max. 30 V DC/1 A or 48 V DC/0,5 A
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (with housing)
Weight	approx. 70 g
Dimensions	W: 72 mm H: 65 mm D: 20 mm (PC Board)



Corresponding connection examples for FSA transponder operation in stand-alone operation or as a device in the fire detection System 8000 can be found in the chapter containing automatic door release systems.

Accessories

788612	Loop isolator PCB
788603.10	Module housing for C-mounting bar or top hat rail mounting
788600	Housing surface mount, gray
788650.10	Housing surface mount, white
788601	Housing flush mount, gray
788651.10	Housing flush mount, white
808625	EOL-Z

808630.10



esserbus transponder RZT, 24 V



Features

- For connection of 3rd party detectors
- Only one loop address is needed per transponder
- Max. 100 transponders per FACP
- Max. 31 transponders per loop
- Max. 32 transponders per detector zone

Approval: VdS

The refurbishment zone transponder is a stand-alone participant on the esserbus for the fire alarm system 8000 and IQ8Control FACP. Individual automatic fire detectors and manual call points (conventional technology) from other manufacturers can be connected to the 4 zone inputs. The voltage of all 4 zones can be configured to 24 V via the internal DC/DC module. An additional reset module is not required to operate third-party detectors. The two relay outputs are available for general control purposes.

Programmable with the programming software tools 8000 Version V2.40 or higher.

Technical Data

Operating voltage	10.5 ... 15 V DC
Current consumption	max. 1.250 mA
Contact load relay	max. 30 V DC/1 A or 48 V DC/0,5 A
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Weight	approx. 150 g
Dimensions	W: 150 mm H: 82 mm D: 20 mm



Whether or not a connection is possible must be individually checked in advance by the technical sales department.

Accessories

788612	Loop isolator PCB
788600	Housing surface mount, gray
788601	Housing flush mount, gray
788650.10	Housing surface mount, white
788651.10	Housing flush mount, white
788605	Mounting kit

783258



MD1L transponder, France



Approval: NF-SSI

Transponder 1 remote control line in plastic box. 1 remote line and positioning control.

Technical Data

Ambient temperature	-10 °C ... 50 °C
Storage temperature	-20 °C ... 70 °C
Type of protection	IP65
Housing	ABS
Color	Light gray type RAL 7035
Dimensions	W: 260 mm H: 355 mm D: 67 mm

783259.10



MD2L transponder, France



Approval: NF-SSI

Transponder 2 remote control line in plastic box. 2 remote line and positioning control.

Technical Data

Ambient temperature	-10 °C ... 50 °C
Storage temperature	-20 °C ... 70 °C
Type of protection	IP65
Housing	ABS
Color	Light gray type RAL 7035
Dimensions	W: 260 mm H: 355 mm D: 67 mm

783257.10

**MD4L transponder, France****Approval: NF-SSI**

Transponder 4 remote control lines in plastic box. 4 remote lines and positioning control.

Technical Data

Ambient temperature	-10 °C ... 50 °C
Storage temperature	-20 °C ... 70 °C
Type of protection	IP65
Housing	ABS
Color	Light gray type RAL 7035
Dimensions	W: 285 mm H: 355 mm D: 67 mm

772388.10

**Refurbishment zone transponder RZT 8000 with housing, France****Approval: NF-SSI**

The refurbishment zone transponder RZT 8000 (4 input/2 output) is connected to the esserbus or for the IQ8Control or ECS 800 monitoring and signaling equipment. The automatic detectors and manual call points (conventional technology) can be connected to the 4 inputs.

Features

- Connection of 1100 series detectors (Universal det)
- Virex and IRY2 flame detectors

Technical Data

Operating voltage	10.5 ... 13.8 V DC
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Type of protection	IP40
Dimensions	W: 189 mm H: 131 mm D: 48 mm (box)



Supplied in housing

Accessories for esserbus Transponders

788612



Loop isolator for transponders



Loop isolator PCB to be mounted on esserbus transponders. To isolate short circuit failure and wire break on the loop.

Technical Data

Ambient temperature	-20 °C ... 50 °C
Storage temperature	-20 °C ... 75 °C
Type of protection	IP 50 (with housing)
Weight	approx. 10 g
Dimensions	W: 32 mm H: 20 mm D: 10 mm

Technical Alarm Modules

804869



IQ8TAM for snap-on mounting with isolator, 1 IN



Approval: VdS

The technical alarm module IQ8TAM is a bus device of the fire alarm system 8000 for recognition, transmission and individual display of technical alarms.

Each IQ8TAM includes an integrated loop isolator, which opens in case of loop short circuit to isolate the part of the loop between two loop isolators. A single wire break does not affect the loop and all devices remain in operation. The module does not require external voltage supply, as voltage is supplied by the field bus.

A remote LED indicator (e.g. Part No. 781804, 781814 and 801824) can be connected to the LED-/LED+ terminal. The max. cable length to the connected remote indicator is up to 100 m!

An external, monitored contact can be connected to the S-/S+ terminal. In case of an activation of this contact, the address and programmed additional text of the corresponding technical alarm module IQ8TAM will be displayed. To monitor this contact an optional monitoring module (Part No. 804870) is required. The max. cable length to the connected module is up to 250 meters.

The IQ8TAM activation is latching. To reset the IQ8TAM either the FACP or the corresponding zone is reset.

Technical Data

Alarm display	LED, red
Connection terminal	max. 1,5 mm ²
Ambient temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 30
Housing	PA 66 - plastic
Color	gray, similar to RAL 7035
Weight	approx. 87 g
Dimensions	W: 25 mm H: 112 mm D: 99 mm



The module can either be mounted in an appropriate installation position in the housing of the fire alarm panel or, for example, on a C-rail of a switch cabinet. Each module can be individually connected or cascaded directly snap-on or on the side connector block.



incl. 4 screw clamps and 1 resistor



804870

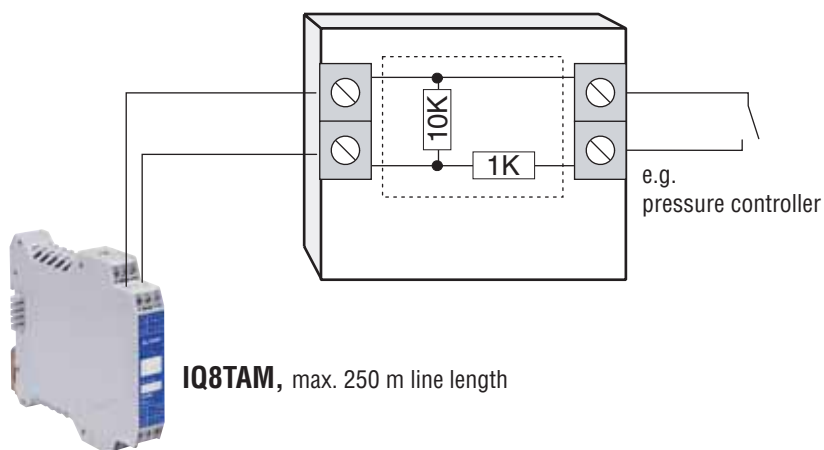
**Alarm and monitoring module for IQ8TAM**

An external, monitored contact can be connected to the terminals of the IQ8TAM technical alarm module for C-rail mounting with Part No. 804869. In case of contact activation, the address and the programmed additional text of the corresponding IQ8TAM technical alarm module will be displayed.

For contact monitoring, the alarm and monitoring module for IQ8TAM (Part No. 804870) is required.



The max. cable length to the connected module must not exceed 250 meters!

Extinguishing system module Part No. 804870

Inside wiring diagram for alarm and monitoring module

804868



IQ8TAL with isolator, 1 IN/1 OUT



Features

- One contact input and one floating relay output
- Voltage supply via the field bus
- Test and reset function
- Higher IP55 protection with Part No. 704965
- Programmable inverse monitoring functionality of the contact input (1k resistance latent/10k resistance fire)
- Powered by the FACP
- Total cable length of the external contact up to 500 m
- Integrated loop isolator
- Max. 127 transponder TAL electronic modules per analog loop

Approval: VdS

The technical alarm device IQ8TAL is a fully-fledged loop device of the IQ8Control fire detection system and facilitates the detection and forwarding of technical alarms.

The IQ8TAL is equipped with an integrated loop isolator, a contact input and a relay output. The relay can be optionally configured as a normally-closed contact or as a normally-open contact. The IQ8TAL does not need a separate voltage supply.

In order to increase the IP protection class, the optional IP55 protection kit (Part No. 704965) can be used.

The functionality of the IQ8TAL can be tested with the included key and the alarm status can be reset directly at the device.

Technical Data

Quiescent current @ 19 V DC	approx. 45 µA
Contact load relay	30 V DC/AC/1 A
Operation indicator	green LED
Alarm display	red LED
Connection terminal	max. 2.5 mm ² (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Type of protection	IP 43, IP 55 with cover 704965
Housing	PC/ASA plastic
Color	blue, similar to RAL 5015
Weight	approx. 110 g
Dimensions	W: 88 mm H: 88 mm D: 21 mm W: 88 mm H: 88 mm D: 57 mm (with surface-mounted housing)



Please note that for surface mounting, the mount housing (Part No. 704981) must be ordered separately.

Compatible with all IQ8Control systems with firmware V3.08 and tools 8000 V1.14 or superior.



2 x 10 k (terminating), 1 x 1 k (alarm), 1 x 6.8 k (inverse operation)

Accessories

704965 Protective kit for MCP and TAL, transparent

704981 Surface mount housing for small MCP, blue

804868.VC0



IQ8TAL with isolator, China

Same as 804868, but Chinese version.

804867



IQ8FCT with isolator, 1 IN/1 OUT



Features

- Runtime monitoring
- Monitoring 2 states with an input
- Steady or impulsive triggering of relay output
- Max. 127 transponder FCT electronic modules per analog loop

Approval: VdS

Same as 804868, but with additional fire control transponder (FCT) software functionality.

Technical Data

Storage temperature	-30 °C ... 75 °C
Type of protection	IP 43, IP 55 with cover 704965
Color	gray, similar to RAL 7035
Weight	approx. 110 g
CE certificate	0786-CPD-20792



Please note that for surface mounting, the mount housing (Part No. 704985) must be ordered separately.

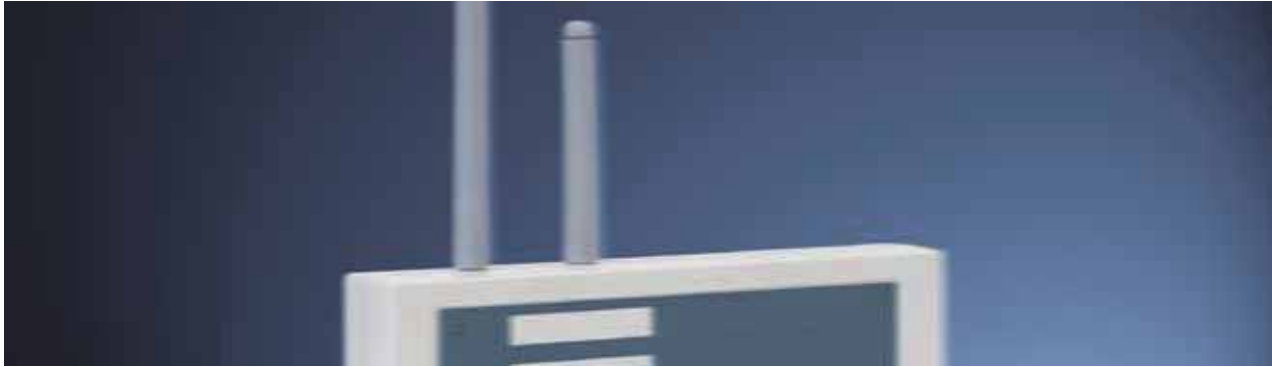
The FCP cannot be operated on the following systems:

FACP 80, System 3000 (FACP 3007/3008), FACP 8008, FACP 8000 C/M, Extinguishing System 8010

Accessories

704965 Protective kit for MCP and TAL, transparent

704985 Surface mount housing for small MCP, gray



Wireless Components

Wireless Modules

224-236

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Features

- Radiocommunication transmission features
- Interference-proof transmission via dual band with frequency hopping @ 433 MHz and 868 MHz
- Bi-directional data traffic
- Permanent automatic interference monitoring of transmission path
- In case of interferences, automatic modification of frequency band and radiocommunication channel
- Band blocking detection
- High transmission range (in the open air: max. 300 m)
- Automatic interference detection due to low field strength levels

The following wireless modules are only compatible with IQ8Control panel. Communication between the RF devices is set up via a dual band transmission mode. The RF-technology applies frequency hopping to enable highest transmission security. In case of interference, the frequency band and the radiocommunication channels are automatically modified. If the entire band and the receiver are blocked due to high interference level, a fault signal is transmitted to the fire alarm panel. Thus, secure and reliable wireless transmission is provided.

The transmission range in open air is up to 300 m. Inside the building, the transmission range varies, depending on building structure, wall thickness or use of reinforced concrete.

IQ8Wireless radio technology facilitates the cable-free connection of IQ8Quad automatic fire detectors (with and without alarm signaling devices), manual call points and the IQ8Alarm alarm signaling device to the IQ8Control fire alarm system.

Already existing fire alarm systems can be expanded using the wireless technology or complete fire alarm systems can be realized for smaller objects with wireless components as well.

The allocation of the wireless components to a wireless transponder or wireless gateway takes place via the tools 8000 programming software.

The status of the batteries is checked automatically and their necessary replacement is displayed early on as a detector failure on the FACP and/or the wireless transponder*.

The optimal installation site as well as the maximum possible transmission distance can be conveniently and quickly transmitted via the tools 8000 integrated field strength measurement.

* during allocation of the wireless components via wireless transponder

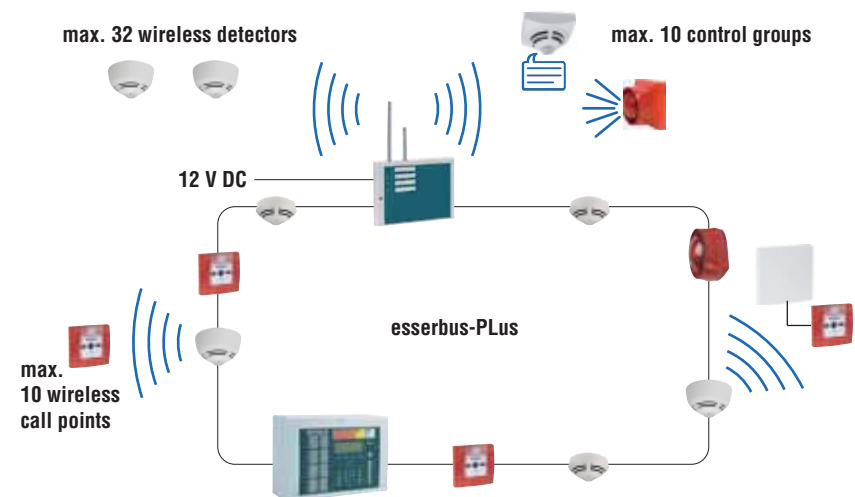


Please take into account that the use of wireless components requires extra training, covering project planning and commissioning. For further information see our training brochure.

These devices were designed, produced and labeled for operation within the countries of the European Union (EU) in accordance with the current EU standards and requirements. In case the device is installed outside of the EU, national guidelines and requirements must be taken into consideration.

For further information, please contact your local sales representative.

Using components like IQ8Alarm and IQ8Quad with integrated alarm devices the esserbus PLus is needed.

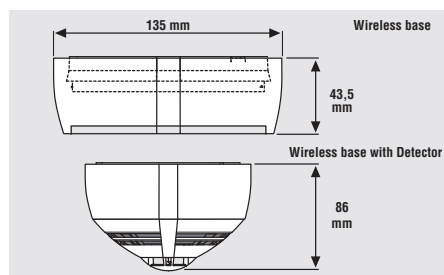


Connection example

805593.10



IQ8Wireless detector base



Features

The wireless detector base suitable for

- Fixed heat detector (Part No. 802171, 802177)
- Rate-of-rise heat detector (Part No. 802271, 803271)
- Optical smoke detector (Part No. 802371, 803371)
- O²T multisensor fire detector (Part No. 802374, 803374)
- OTG multisensor fire detector (Part No. 802473)

The wireless detector base features

- Individual detector identification on the control panel
- Regular functionality check for each detector
- Alarm and operation display on the detector
- Alarm and fault transmission in accordance with EN 54-2
- Easy detector or battery replacement with detector removal tool
- Fault signal when the mounted wireless base and the inserted detector are removed
- Permanent monitoring of battery voltage
- Up to 2 years battery life depending on detector type and environmental conditions

Approval: VdS

With the IQ8Wireless base, the wireless component is located in the base onto which the respective fire detector is placed. The wireless base facilitates the connection of the IQ8Quad TM, TD, O, O²T and OTG detectors via a wireless transmission line to the esserbus/esserbus-PLus and integrates them via wireless transponder or wireless gateway into the fire alarm system.

A maximum of 32 radio bases per wireless transponder and/or 10 per radio gateway can be allocated.

Technical Data

Operating voltage	4 x 3.6 V batteries
Current consumption	approx. 50 µA
Battery operating time	approx. 3 years*
Range inside	max. 30 m
Range outside	max. 300 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Data transmission speed	19.2 Kbit/s
Application temperature	-5 °C ... 55 °C
Storage temperature	-20 °C ... 70 °C (w/o batteries) 15 °C ... 35 °C (with batteries)
Air humidity	< 95 %
Type of protection	IP42
Material	ABS-V0
Color	white, similar to RAL 9010
Weight	approx. 315 g (incl. batteries)
Specification	EN 54-18:2005/-25:2008
Dimensions	Ø: 135 mm H: 49 mm (with detector H: 88 mm)



The batteries to be used are components of the device approval according to EN 54 and are specified by the manufacturer. With the IQ8Wireless radio components, only the approved batteries with Part No. 805597 may be used. Use of batteries other than those specified by us automatically voids the product's device approval (VdS-approval) and may not be used for example in Germany in fire alarm systems under legal building regulations.

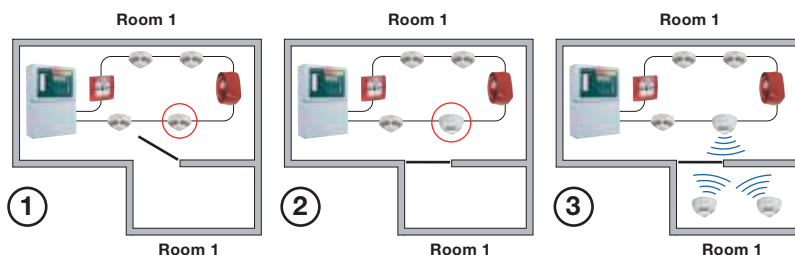
*The battery operating time is dependent on the type of detector/device used, as well as the application temperature and additional surrounding conditions. It can be substantially restricted by increased current consumption of the wireless devices in the case of alarm, wireless interference or poor transmission, or even possibly through contact resistance at the contacts. Please note important instructions for usage of batteries in manual Part No. 798941.10 (available at the website).



4 x 3.6 V lithium batteries (Part No. 805597)

Accessories

805597 4 x 3.6 V lithium batteries

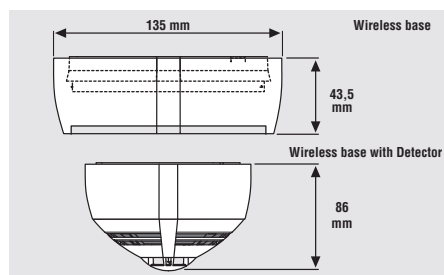


Expansion via IQ8Wireless gateway with IQ8Wireless detector base

805593.F0.10



IQ8Wireless detector base, France



Features

The wireless detector base suitable for

- Fixed heat detector (Part. No. 802171, 802177)
- Rate-of-rise heat detector (Part. No. 802271, 803271)
- Optical smoke detector (Part. No. 802371, 803371)
- O²T multisensor (Part. No. 802374, 803374)
- OTG multisensor (Part. No. 802473)

The wireless detector base features

- Individual detector identification on the control panel
- Regular functionality check for each detector
- Alarm and operation display on the detector
- Alarm and fault transmission in accordance with EN 54-2
- Easy detector or battery replacement with detector removal tool
- Fault signal when the mounted wireless base and the inserted detector are removed
- Permanent monitoring of battery voltage
- Up to 2 years battery life depending on detector type and environmental conditions

Approval: NF-SSI

With the IQ8Wireless base, the wireless component is located in the base onto which the respective fire detector is placed. The wireless base facilitates the connection of the IQ8Quad TM, TD, O, O²T and OTG detectors via a wireless transmission line to the esserbus/esserbus-PLus and integrates them via wireless transponder or wireless gateway into the fire alarm system.

A maximum of 32 radio bases per wireless transponder and/or 10 per radio gateway can be allocated.

Technical Data

Operating voltage	4 x 3.6 V batteries
Current consumption	approx. 50 µA
Battery operating time	approx. 3 years*
Range inside	max. 30 m
Range outside	max. 300 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Transmitter power	10 mW
Sensitivity	-100 dBm
Application temperature	-5 °C ... 55 °C
Storage temperature	-20 °C ... 70 °C (without batteries) -10 °C ... 25 °C (with batteries)
Air humidity	< 95 % (non-condensing)
Type of protection	IP42
Material	ABS-V0
Color	white, similar to RAL9010
Weight	approx. 315 g (incl. batteries)
Specification	EN 54-18:2005/-25:2009
Dimensions	Ø: 135 mm H: 49 mm (with detector H: 88 mm)



The batteries to be used are components of the device approval according to EN 54 and are specified by the manufacturer. With the IQ8Wireless radio components, only the approved batteries with Part No. 805597 may be used. Use of batteries other than those specified by us automatically voids the product's device approval (VdS-approval) and may not be used for example in Germany in fire alarm systems under legal building regulations.

*The battery operating time is dependent on the type of detector/device used, as well as the application temperature and additional surrounding conditions. It can be substantially restricted by increased current consumption of the wireless devices in the case of alarm, wireless interference or poor transmission, or even possibly through contact resistance at the contacts. Please note important instructions for usage of batteries in manual Part No. 798941.10 (available at the website).



4x 3.6 V lithium batteries 805597
1x standard detector base for IQ8Quad Part No. 805590 with an additional factory-installed wire jumper

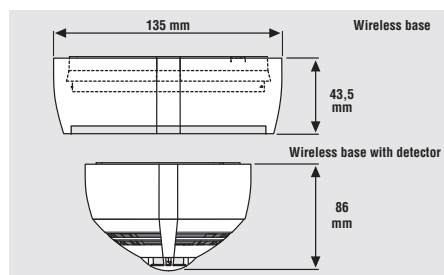
Accessories

805597 4 x 3.6 V lithium batteries

805594.10



IQ8Wireless gateway for devices



Features

- The wireless gateway can be mounted between detector base and IQ8Quad detector. No additional wiring required
- Suitable for IQ8Quad detectors w/o alarm devices
- The connection of a remote LED indicator for this detector is possible
- Wireless communication with up to 10 users
- Maximum 10 wireless bases
- Maximum 10 wireless interfaces with IQ8MCP manual call points
- Maximum 10 control groups for wireless interface with IQ8Quad/IQ8Alarm alarm signaling devices
- All wireless devices are integrated as individually addressable on the esserbus / esserbus-PLus
- esserbus integration of all radiocommunication devices as individually addressable users
- The radiocommunication devices can be allocated in up to 10 detector zones
- Up to 9 wireless gateways per loop
- Alarm and trouble transmission in accordance with EN 54-2
- Easy detector or battery replacement via detector removal tool
- Trouble signal when removing the gateway and the detector
- Permanent monitoring of battery voltage
- One gateway requires one loop address
- The total number of loop devices of the loop will be reduced by only 12 devices for each connected IQ8Wireless Gateway
- Max. 18 IQ8Wireless Gateways per FACP IQ8Control C
- Max. 45 IQ8Wireless Gateways per FACP IQ8Control M and FACP FlexES Control

Approval: VdS

This wireless gateway is especially designed for convenient and time-saving expansion of an already existing IQ8Control/FlexES Control fire detection system. By removing a detector already installed on the loop and adding the wireless gateway to the standard IQ8 detector base, up to 10 additional fire detectors equipped with wireless detector bases or 10 addressable manual call points can be added to the existing system. Up to 10 components with alarm signaling functions – IQ8Alarm alarm signaling devices and/or IQ8Quad fire alarms with integrated alarm signaling device – can be connected per wireless gateway via the universal wireless interface. And all this without any additional cabling. Depending on the surrounding conditions, the wireless transmission can reach up to 200m. The wireless gateway must fundamentally be operated with an IQ8Quad detector. It integrates the intelligent IQ8Wireless components into the esserbus or esserbus-PLus via the wireless base or wireless interface, thus making these components fully individually addressable loop devices.

Up to 9 wireless gateways can be operated on the loop. Each wireless gateway reduces the maximum number of esserbus devices by 12 pieces.

Technical Data

Operating voltage	8 ... 42 V DC (via loop)
Voltage supply	4 x 3.6 V lithium battery
Current consumption	400 µA to max. 2.5 mA
Battery operating time	approx. 3 years*
Range inside	max. 20 m
Range outside	max. 200 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Transmitter power	10 mW
Sensitivity	-100 dBm
Data transmission speed	19,2 Kbit/s
Application temperature	-5 °C ... 55 °C
Storage temperature	-20 °C ... 70 °C (w/o batteries) 15 °C ... 35 °C (with batteries)
Air humidity	< 95 % (non-condensing)
Type of protection	IP42
Material	ABS
Color	white, similar to RAL 9010
Weight	approx. 265 g (incl. batteries)
Specification	EN 54-17:2005/-18:2005/-25:2008
Dimensions	Ø: 135 mm H: 49 mm (with detector H: 88 mm)



The standard detector base version IQ8Quad 805590 is not included in the RF gateway package.

The batteries to be used are components of the device approval according to EN 54 and are specified by the manufacturer. With the IQ8Wireless radio components, only the approved batteries with part no. 805597 may be used. Use of batteries other than those specified by us automatically voids the product's device approval (VdS-approval) and may not be used for example in Germany in fire alarm systems under legal building regulations.

*The battery operating time is dependent on the type of detector/device used, as well as the application temperature and additional surrounding conditions. It can be substantially restricted by increased current consumption of the wireless devices in the case of alarm, wireless interference or poor transmission, or even possibly through contact resistance at the contacts. Please note important instructions for usage of batteries in FB 798941.



4 x 3.6 V lithium batteries (Part No. 805597)

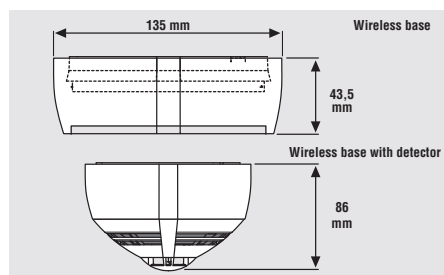
Accessories

805597 4 x 3.6 V lithium batteries

805594.10.F0



IQ8Wireless gateway for devices, France



Features

- The wireless gateway can be mounted between detector base and IQ8Quad detector. No additional wiring required
- Suitable for IQ8Quad detectors w/o alarm devices
- Wireless communication with up to 10 users
- Maximum 10 wireless bases
- Maximum 10 wireless interfaces with IQ8MCP manual call points
- Maximum 10 control groups for wireless interface with IQ8Quad/IQ8Alarm alarm signaling devices
- All wireless devices are integrated as individually addressable on the esserbus / esserbus-PLus
- esserbus integration of all radiocommunication devices as individually addressable users
- The radiocommunication devices can be allocated in up to 10 detector zones
- Up to 9 wireless gateways per loop
- Alarm and trouble transmission in accordance with EN 54-2
- Easy detector or battery replacement via detector removal tool
- Trouble signal when removing the gateway and the detector
- Permanent monitoring of battery voltage

Approval: VdS

This wireless gateway is especially designed for convenient and time-saving expansion of an already existing IQ8Control/FlexES Control fire detection system. By removing a detector already installed on the loop and adding the wireless gateway to the standard IQ8 detector base, up to 10 additional fire detectors equipped with wireless detector bases or 10 addressable manual call points can be added to the existing system. Up to 10 components with alarm signaling functions – IQ8Alarm alarm signalling devices and/or IQ8Quad fire alarms with integrated alarm signaling device – can be connected per wireless gateway via the universal wireless interface. And all this without any additional cabling. Depending on the surrounding conditions, the wireless transmission can reach up to 200m. The wireless gateway must fundamentally be operated with an IQ8Quad detector. It integrates the intelligent IQ8Wireless components into the esserbus or esserbus-PLus via the wireless base or wireless interface, thus making these components fully individually addressable loop devices.

Up to 9 wireless gateway can be operated on the loop. Each wireless gateway reduces the maximum number of esserbus devices by 12 pieces.

Technical Data

Operating voltage	8 ... 42 V DC
Voltage supply	4 x 3.6 V battery
Current consumption	4 mA for 10 wireless detectors
Battery operating time	approx. 3 years*
Range inside	max. 20 m
Range outside	max. 200 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Transmitter power	10 mW
Sensitivity	-100 dBm
Application temperature	-5 °C ... 55 °C
Storage temperature	-20 °C ... 70 °C (w/o batteries) -10 °C ... 25 °C (with batteries)
Air humidity	< 95 % (non-condensing)
Type of protection	IP42
Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 265 g (incl. batteries)
Specification	EN 54-17: 2005 / -18: 2005 / -25: 2009
Dimensions	Ø: 135 mm H: 49 mm (with detector H: 88 mm)



The standard detector base version IQ8Quad Part No. 805590 is not included in the RF gateway package.

The batteries to be used are components of the device approval according to EN 54 and are specified by the manufacturer. With the IQ8Wireless radio components, only the approved batteries with Part No. 805597 may be used. Use of batteries other than those specified by us automatically voids the product's device approval (VdS-approval) and may not be used for example in Germany in fire alarm systems under legal building regulations.

*The battery operating time is dependent on the type of detector/device used, as well as the application temperature and additional surrounding conditions. It can be substantially restricted by increased current consumption of the wireless devices in the case of alarm, wireless interference or poor transmission, or even possibly through contact resistance at the contacts. Please note important instructions for usage of batteries in in manual Part No. 798941.10 (available at the website).

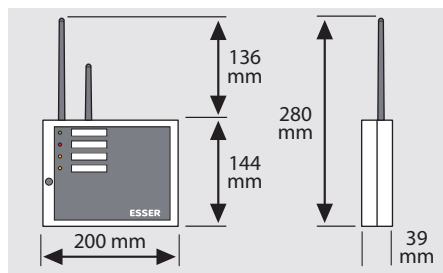


4x 3.6 V lithium batteries

805595.10



IQ8Wireless transponder for devices, wall mount



Features

- RF communication with up to 32 users
- maximum 32 wireless bases
- maximum 10 wireless interfaces with IQ8MCP manual call points
- maximum 10 control groups for wireless interface with IQ8Quad/IQ8Alarm alarm signaling devices
- esserbus integration of all RF. Devices as individually addressable users
- The RF devices can be assigned in up to 32 detector zones
- Alarm and fault transmission in accordance with EN 54-2
- Connection to esserbus of IQ8Control panel as bus device as well as to a conventional detector zones
- Stand-alone operation
- Potential-free outputs for common fault and common fire

Approval: VdS

This wireless transponder is designed for wall mounting. The wireless transponder communicates with up to 32 other wireless devices. These can be wireless of various types from intelligent automatic fire detectors or wireless interfaces with manual call points and/or alarm signaling devices of the IQ8-family. Using the System IQ8Control/FlexES Control, the wireless transponder integrates the intelligent automatic detectors (with and without alarm signaling devices), manual call point and alarm generator IQ8Alarm in the esserbus / esserbus-PLus via the wireless base and/or wireless interface. The detector base allows esserbus integration of intelligent automatic detectors as bus devices with individual addressing via the transponder. Up to 10 transponders can be operated on one loop. The transponder can be linked with the loop as well as with a conventional detector zone or it can be operated as a stand-alone unit. Potential-free outputs for common fault and common fire are available. For system 8000 the transponder for RF devices can only be connected by using a potential-free relay to 4 IN/2 OUT or 1 IN transponder, because it is not compatible with panel 8000 and it cannot be used as a bus device.

The transponder needs an external supply voltage for operation.

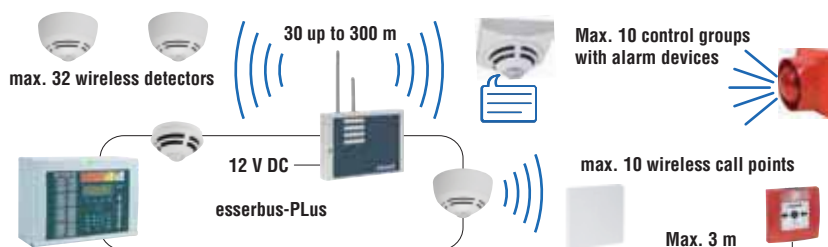
Technical Data

Operating voltage	9 ... 30 V DC (via loop)
Quiescent current @ 12 V DC	approx. 17 mA
Alarm current @ 12 V DC	approx. 18 mA
Range inside	max. 30 m
Range outside	max. 300 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Data transmission speed	19,2 Kbit/s
Contact load relay	30 V DC/1 A
Application temperature	-5 °C ... 55 °C
Storage temperature	-10 °C ... 60 °C
Air humidity	< 95 %
Type of protection	IP42
Housing	ASA + PC
Color	white, similar to RAL 9010
Weight	approx. 250 g
Specification	EN 54-17:2005/-18:2005/-25:2008
Dimensions	W: 200 mm H: 280 mm D: 39 mm (with detector H: 88 mm)



The external power supply of the IQ8Wireless transponder can come from the FACP or from an external power unit.

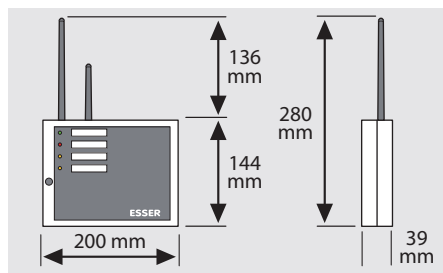
The voltage for the wireless transponder can be supplied by the FACP or an external power supply. An individual, separately protected supply line must be installed for the voltage supply. The external voltage supply is monitored by the wireless transponder. If the wireless transponder is installed as a device on the IQ8Control/FlexES Control, fire system, analog loop, a disturbance is transmitted to the fire detection control unit via the loop and is indicated there.



805595.10.F0



IQ8Wireless transponder for devices, wall mount, France



Features

- RF communication with up to 32 users
- maximum 32 wireless bases
- maximum 10 wireless interfaces with IQ8MCP manual call points
- maximum 10 control groups for wireless interface with IQ8Quad/IQ8Alarm alarm signaling devices
- esserbus integration of all RF. Devices as individually addressable users
- The RF devices can be assigned in up to 32 detector zones
- Alarm and fault transmission in accordance with EN 54-2
- Connection to esserbus of IQ8Control panel as bus device as well as to a conventional detector zone
- Stand-alone operation
- Potential-free outputs for common fault and common fire

Approval: NF-SSI

This wireless transponder is designed for wall mounting. The wireless transponder communicates with up to 32 other wireless devices. These can be wireless of various types from intelligent automatic fire detectors or wireless interfaces with manual call points and/or alarm signaling devices of the IQ8-family. Using the System IQ8Control/FlexES Control, the wireless transponder integrates the intelligent automatic detectors (with and without alarm signaling devices), manual call point and alarm generator IQ8Alarm in the esserbus / esserbus-Plus via the wireless base and/or wireless interface. The detector base allows esserbus integration of intelligent automatic detectors as bus devices with individual addressing via the transponder. Up to 10 transponders can be operated on one loop. The transponder can be linked with the loop as well as with a conventional detector zone or it can be operated as a stand-alone unit. Potential-free outputs for common fault and common fire are available. For system 8000 the transponder for RF devices can only be connected by using a potential-free relay to 4 IN/2 OUT or 1 IN transponder, because it is not compatible with panel 8000 and it cannot be used as bus device.

The transponder needs an external supply voltage for operation.

Technical Data

Operating voltage	9 ... 30 V DC
Quiescent current @ 12 V DC	approx. 17 mA
Alarm current @ 12 V DC	approx. 18 mA
Range inside	max. 30 m
Range outside	max. 300 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Transmitter power	10 mW
Sensitivity	-100 dBm
Contact load relay	30 V DC / 1A
Application temperature	-5 °C ... 55 °C
Storage temperature	-10 °C ... 60 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP42
Housing	ASA + PC
Color	white, similar to RAL 9010
Weight	approx. 250 g
Specification	EN 54-17:2005/-18:2005/-25:2009
Dimensions	W: 200 mm H: 280 mm D: 39 mm (with detector H: 88 mm)



The external power supply of the IQ8Wireless transponder can come from the FACP or from an external power unit.

The voltage for the wireless transponder can be supplied by the FACP or an external power supply. An individual, separately protected supply line must be installed for the voltage supply. The external voltage supply is monitored by the wireless transponder. If the wireless transponder is installed as a device on the IQ8Control/FlexES Control fire detection system analog loop, a disturbance is transmitted to the fire detection control unit via the loop and is indicated there.

805601.10



IQ8Wireless universal interface w/o cover, red



Features

Radio interface suitable for:

- IQ8MCP - electronic module, large design (Part No. 804905/ 804906)
- IQ8MCP – complete package, small design (Part No. 804971)
- IQ8MCP - electronic module, small design (Part No. 804955), only with mounting frame (Part No. 704967)
- IQ8Quad detectors (with and without alarm signaling devices)
- IQ8Alarm alarm signaling device (Part No. 8073xx)

Radio interface features:

- The IQ8 components are individually identified on the FACP
- Regular functionality performance checks of IQ8 components
- Fault signal when the IQ8 components are removed from the FACP
- Operating mode display directly at the IQ8 manual call point and IQ8Quad detector
- Alarm and fault message transmission in compliance with EN 54-2
- Easy detector removal and battery replacement using multi-functional key
- Remote operation of IQ8 components possible (max. 3 meters) via 2-wire line
- Constant battery status monitoring
- Early battery replacement notification at the FACP

Approval: VdS

The radio interface allows the IQ8MCP (small or large design) to be connected on the wireless esserbus-PLus.

The radio interface connects the intelligent IQ8MCP to the esserbus/powered loop via the IQ8Wireless transponder or the IQ8Wireless gateway. Thus, the devices are automatically converted into individually addressable loop devices.

Technical Data

Operating voltage	4 x 3.6 V batteries
Current consumption	approx. 30 µA
Battery operating time	approx. 3 years*
Range inside	max. 30 m
Range outside	max. 300 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Data transmission speed	19.2 Kbit/s
Application temperature	-5 °C ... 55 °C
Storage temperature	-20 °C ... 70 °C (w/o batteries) 15 °C ... 35 °C (with batteries)
Air humidity	< 95 % (non-condensing)
Type of protection	IP42
Material	PC/ASA plastic
Color	red, similar to RAL 3020
Weight	approx. 285 g (incl. batteries, without attachment)
Specification	EN 54-18:2005/-25:2008
Dimensions	W: 135 mm H: 135 mm D: 20 mm (without attachment)



Only use small manual call points with mounting frame Part No. 704967.

The batteries to be used are components of the device approval according to EN 54 and are specified by the manufacturer. With the IQ8Wireless radio components, only the approved batteries with Part No. 805597 may be used. Use of batteries other than those specified by us automatically voids the product's device approval (VdS-approval) and may not be used for example in Germany in fire alarm systems under legal building regulations.

*The battery operating time is dependent on the type of detector/device used, as well as the application temperature and additional surrounding conditions. It can be substantially restricted by increased current consumption of the wireless devices in the case of alarm, wireless interference or poor transmission, or even possibly through contact resistance at the contacts. Please note important instructions for usage of batteries in in manual Part No. 798941.10 (available at the website).

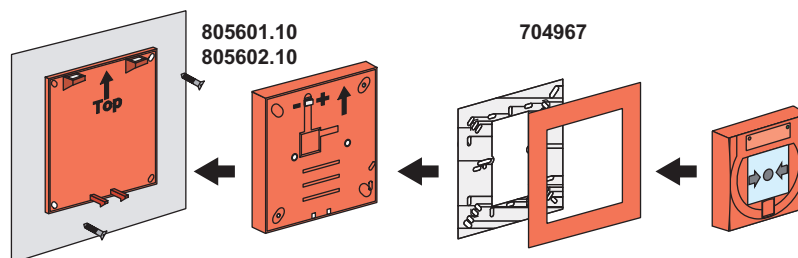


4 x 3.6 V lithium batteries (Part No. 805597)

Accessories

704967 Mounting frame for small MCP

805603 IQ8Wireless-mounting frames for IQ8Alarm



Application example for large MCP

805601.10.F0



IQ8Wireless universal interface w/o cover, red, France



Features

Radio interface suitable for:

- IQ8MCP - electronic module, large design (Part No. 804905/ 804906)
- IQ8MCP – complete package, small design (Part No. 804971)
- IQ8MCP - electronic module, small design (Part No. 804955), only with mounting frame (Part No. 704967)
- IQ8Quad detectors (with and without alarm signaling devices)
- IQ8Alarm alarm signaling device (Part No. 8073xx)

Radio interface features:

- The IQ8 components are individually identified on the FACP
- Regular functionality performance checks of IQ8 components
- Fault signal when the IQ8 components are removed from the FACP
- Operating mode display directly at the IQ8 manual call point and IQ8Quad detector
- Alarm and fault message transmission in compliance with EN 54-2
- Easy detector removal and battery replacement using multi-functional key
- Remote operation of IQ8 components possible (max. 3 meters) via 2-wire line
- Constant battery status monitoring
- Early battery replacement notification at the FACP

Approval: NF-SSI

The radio interface allows the IQ8MCP (small or large design) to be connected on the wireless esserbus-PLus.

The radio interface connects the intelligent IQ8MCP to the esserbus/powered loop via the IQ8Wireless transponder or the IQ8Wireless gateway. Thus, the devices are automatically converted into individually addressable loop devices.

Technical Data

Operating voltage	4 x 3.6 V batteries
Current consumption	approx. 30 µA
Battery operating time	approx. 3 years*
Range inside	max. 30 m
Range outside	max. 300 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Transmitter power	10 mW
Sensitivity	-100 dBm
Application temperature	-5 °C ... 55 °C
Storage temperature	-20 °C ... 70 °C (w/o batteries) -10 °C ... 25 °C (with batteries)
Air humidity	< 95 % (non-condensing)
Type of protection	IP42
Material	PC/ASA plastic
Color	red, similar to RAL 3020
Weight	approx. 285 g (incl. batteries, without attachment)
Specification	EN 54-18:2005/-25:2009
Dimensions	W: 135 mm H: 135 mm D: 20 mm (without attachment)



Only use small manual call points with mounting frame Part No. 704967.

The batteries to be used are components of the device approval according to EN 54 and are specified by the manufacturer. With the IQ8Wireless radio components, only the approved batteries with Part No. 805597 may be used. Use of batteries other than those specified by us automatically voids the product's device approval (VdS-approval) and may not be used for example in Germany in fire alarm systems under legal building regulations.

*The battery operating time is dependent on the type of detector/device used, as well as the application temperature and additional surrounding conditions. It can be substantially restricted by increased current consumption of the wireless devices in the case of alarm, wireless interference or poor transmission, or even possibly through contact resistance at the contacts. Please note important instructions for usage of batteries in in manual Part No. 798941.10 (available at the website).

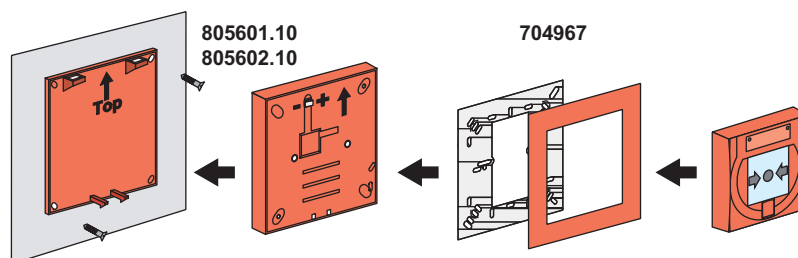


4 x 3.6 V lithium batteries (Part No. 805597)

Accessories

805605 Cover for IQ8Wireless radio interface, red cover plate and white cover plate

704967 Mounting frame for the IQ8MCP



805602.10



IQ8Wireless universal interface w/o cover, white



Features

Radio interface suitable for:

- IQ8MCP - electronic module, large design (Part No. 804905/ 804906)
- IQ8MCP – complete package, small design (Part No. 804971)
- IQ8MCP - electronic module, small design (Part No. 804955), only with mounting frame (Part No. 704967)
- IQ8Quad detectors (with and without alarm signaling devices)
- IQ8Alarm alarm signaling device (Part No. 8073xx)

Radio interface features:

- The IQ8 components are individually identified on the FACP
- Regular functionality performance checks of IQ8 components
- Fault signal when the IQ8 components are removed from the FACP
- Operating mode display directly at the IQ8 manual call point and IQ8Quad detector
- Alarm and fault message transmission in compliance with EN 54-2
- Easy detector removal and battery replacement using multi-functional key
- Remote operation of IQ8 components possible (max. 3 meters) via 2-wire line
- Constant battery status monitoring
- Early battery replacement notification at the FACP

Approval: VdS

The radio interface allows the IQ8MCP (small or large design) to be connected on the wireless esserbus-PLus.

The radio interface connects the intelligent IQ8MCP to the esserbus/powered loop via the IQ8Wireless transponder or the IQ8Wireless gateway. Thus, the devices are automatically converted into individually addressable loop devices.

Technical Data

Operating voltage	4 x 3.6 V batteries
Current consumption	approx. 30 µA
Battery operating time	approx. 3 years*
Range inside	max. 30 m
Range outside	max. 300 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Data transmission speed	19.2 Kbit/s
Application temperature	-5 °C ... 55 °C
Storage temperature	-20 °C ... 70 °C (w/o batteries) 15 °C ... 35 °C (with batteries)
Air humidity	< 95 %
Type of protection	IP42
Material	PC/ASA plastic
Color	white, similar to RAL 9010
Weight	approx. 285 g (incl. batteries, without attachment)
Specification	EN 54-18:2005/-25:2008
Dimensions	W: 135 mm H: 135 mm D: 20 mm (without attachment)



Only use small manual call points with mounting frame Part No. 704967.

The batteries to be used are components of the device approval according to EN 54 and are specified by the manufacturer. With the IQ8Wireless radio components, only the approved batteries with Part No. 805597 may be used. Use of batteries other than those specified by us automatically voids the product's device approval (VdS-approval) and may not be used for example in Germany in fire alarm systems under legal building regulations.

*The battery operating time is dependent on the type of detector/device used, as well as the application temperature and additional surrounding conditions. It can be substantially restricted by increased current consumption of the wireless devices in the case of alarm, wireless interference or poor transmission, or even possibly through contact resistance at the contacts. Please note important instructions for usage of batteries in in manual Part No. 798941.10 (available at the website).



4 x 3.6 V lithium batteries (Part No. 805597)

Accessories

- 704967 Mounting frame for small MCP
- 805603 IQ8Wireless-mounting frames for IQ8Alarm
- 805604 IQ8Wireless-mounting frames for IQ8Quad

805602.10.F0



IQ8Wireless universal interface w/o cover, white, France



Features

Radio interface suitable for:

- IQ8MCP - electronic module, large design (Part No. 804905/ 804906)
- IQ8MCP – complete package, small design (Part No. 804971)
- IQ8MCP - electronic module, small design (Part No. 804955), only with mounting frame (Part No. 704967)
- IQ8Quad detectors (with and without alarm signaling devices)
- IQ8Alarm alarm signaling device (Part No. 8073xx)

Radio interface features:

- The IQ8 components are individually identified on the FACP
- Regular functionality performance checks of IQ8 components
- Fault signal when the IQ8 components are removed from the FACP
- Operating mode display directly at the IQ8 manual call point and IQ8Quad detector
- Alarm and fault message transmission in compliance with EN 54-2
- Easy detector removal and battery replacement using multi-functional key
- Remote operation of IQ8 components possible (max. 3 meters) via 2-wire line
- Constant battery status monitoring
- Early battery replacement notification at the FACP

Approval: VdS

The radio interface allows the IQ8MCP (small or large design) to be connected on the wireless esserbus-PLus.

The radio interface connects the intelligent IQ8MCP to the esserbus/powered loop via the IQ8Wireless transponder or the IQ8Wireless gateway. Thus, the devices are automatically converted into individually addressable loop devices.

Technical Data

Operating voltage	4 x 3.6 V batteries
Current consumption	approx. 30 µA
Battery operating time	approx. 3 years*
Range inside	max. 30 m
Range outside	max. 300 m
Frequency band 1	433 MHz with 16 channels
Frequency band 2	868 MHz with 7 channels
Transmitter power	10 mW
Sensitivity	-100 dBm
Data transmission speed	19,2 Kbit/s
Application temperature	-5 °C ... 55 °C
Storage temperature	-20 °C ... 70 °C (w/o batteries) -10 °C ... 25 °C (with batteries)
Air humidity	< 95 % (non-condensing)
Type of protection	IP42
Material	PC/ASA plastic
Color	white, similar RAL 9010
Weight	approx. 285 g (incl. batteries, without attachment)
Specification	EN 54-18:2005/-25:2009
Dimensions	W: 135 mm H: 135 mm D: 20 mm (without attachment)



Only use small manual call points with mounting frame Part No. 704967.

The batteries to be used are components of the device approval according to EN 54 and are specified by the manufacturer. With the IQ8Wireless radio components, only the approved batteries with Part No. 805597 may be used. Use of batteries other than those specified by us automatically voids the product's device approval (VdS-approval) and may not be used for example in Germany in fire alarm systems under legal building regulations.

*The battery operating time is dependent on the type of detector/device used, as well as the application temperature and additional surrounding conditions. It can be substantially restricted by increased current consumption of the wireless devices in the case of alarm, wireless interference or poor transmission, or even possibly through contact resistance at the contacts. Please note important instructions for usage of batteries in in manual Part No. 798941.10 (available at the website).



4 x 3.6 V lithium batteries (Part No. 805597)

Accessories

805605 Cover for IQ8Wireless radio interface, red cover plate and white cover plate

704967 Mounting frame for the IQ8MCP

805604 Mounting frame for IQ8Quad detectors, white

704967

**Mounting frame for small MCP, red and white**

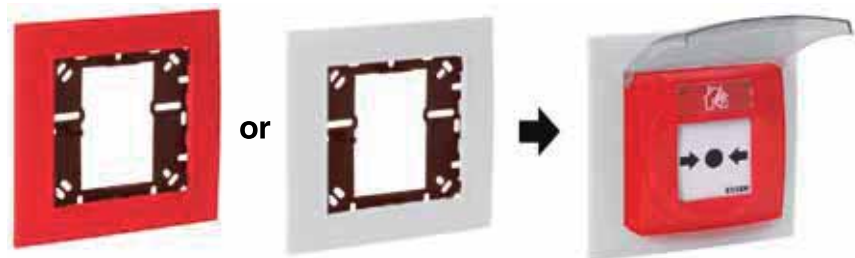
The mounting frame is useful for mounting MCPs on different international flush mount boxes.

Technical Data

Color	red, similar to RAL 3020 white, similar to RAL 9010
Dimensions	W: 132 mm H: 132 mm D: 8 mm



2 x Fastening screws are included (red and white)



Application example: Mounting frame with small MCP

805603

**IQ8Wireless mounting frames for IQ8Alarm, red and white**

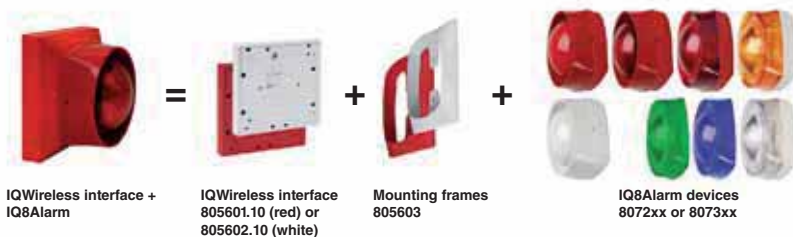
The mounting frame is used for the mounting of the IQ8Alarm alarm signaling devices onto the IQ8Wireless interface Part No. 805601.10/805602.10.

Technical Data

Color	red, similar to RAL 3020 white, similar to RAL 9010
Weight	approx. 64 g
Dimensions	W: 133 mm H: 133 mm D: 21 mm



1 x mounting frame red
1 x mounting frame white



Application example

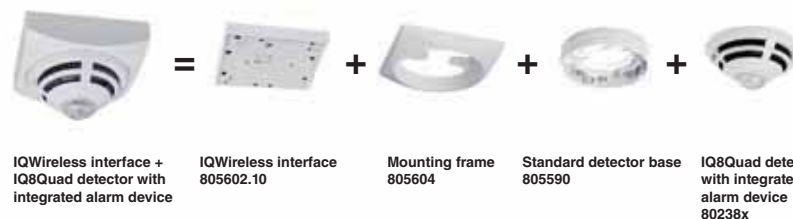
805604

**IQ8Wireless mounting frame for IQ8Quad detectors, white**

The mounting frame is used for the mounting of the IQ8Quad fire detector with or without integrated alarm signaling device onto the IQ8Wireless interface 805602.10.

Technical Data

Color	white, similar to RAL 9010
Weight	approx. 41 g
Dimensions	W: 133 mm H: 133 mm D: 21 mm



Application example

805605

**IQ8Wireless cover for wireless interface, red and white**

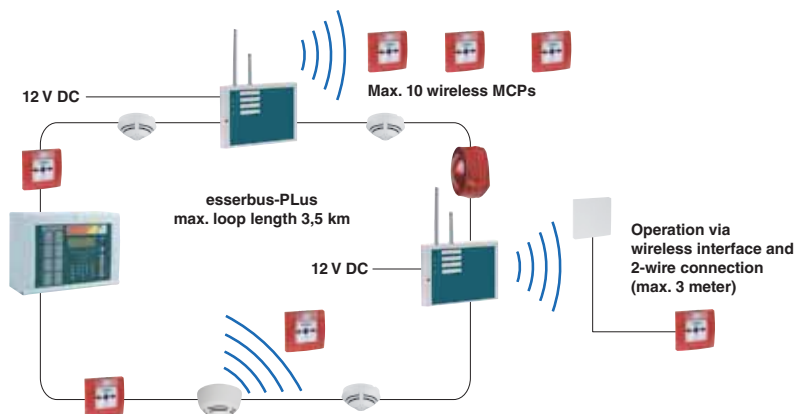
For applications in which the IQ8 components are not to be directly mounted (remote connection) on the IQ8Wireless interface Part No. 805601.10/805602.10, the wireless interface can be used with the filler panel.

Technical Data

Color	red, similar to RAL 3020 white, similar to RAL 9010
Weight	approx. 33 g
Dimensions	W: 133 mm H: 133 mm D: 8 mm



- 1 x Red cover plate
- 1 x White cover plate



Application example



Detectors for Special Applications

Flame and Heat Detector	238-242
Air Duct Detectors	243-245
Linear Heat Detectors	246-247
Linear Smoke Detectors	248-253
Aspirating Smoke Detectors	254-277
Accessories	278

Flame Detectors

782311



UV flame detector UniVario



Features

- Direct linking and voltage supply via standard detector group at the esserbus transponder (Part No. 808622)
- Base installation and alignment via mounting bracket (Part No. 783312)
- High IP protection for indoor and outdoor usage
- Operation and fault status displayed on the detector
- Self-monitoring via internal sensors

Approval: VdS

UV flame detector for the recognition of fast developing fires with flame formation. Operation, fault and fire statuses are displayed via LEDs on the detector. The supply voltage and the linking take place directly via the standard detector zone at the esserbus transponder (part no. 808623.10). Resetting of the detector is also carried out directly via the same esserbus transponder.

Technical Data

Operating voltage	9 V DC
Quiescent current @ 9 V DC	approx. 500 µA
Alarm current @ 9 V DC	typ. 15 mA
Area to be monitored	max. 676 m ²
Height to be monitored	max. 45 m
Ambient temperature	-20 °C ... 80 °C
Storage temperature	-40 °C ... 85 °C
Air humidity	≤ 95% (w/o condensation)
Type of protection	IP 67
Housing	Die cast aluminum
Color	red, similar to RAL 3000
Weight	approx. 945 g (incl. base and bracket)
Dimensions	W: 130 mm H: 140 mm D: 92 mm



Detector base and mounting bracket are not supplied!

782315



Three-channel infrared flame detector UniVario



Features

- 3-channel infrared flame detector
- High level of protection against disturbance variables thanks to optimized hardware and development of special algorithms
- Maximum level of response sensitivity according to EN54-10, Class 1
- Each optical channel has separate functional monitoring

Approval: G 211041

UniVario three-channel IR flame detector for recognition of quickly developing fires with flame development. Optical windows of the IR sensors are fully monitored. The detector achieves a high level of resistance towards disturbance variables via three-channel infrared evaluation. Voltage supply and connection occur directly via the standard detector zone at the esserbus transponder (Part No. 808623.10). The detector is also reset directly via the same esserbus transponder.

Technical Data

Operating voltage	9 V DC
Quiescent current	approx. 2.3 mA
Alarm current @ 9 V DC	typ. 15 mA
Area to be monitored	max. 676 m ²
Height to be monitored	max. 45 m
Ambient temperature	-20 °C ... 80 °C
Storage temperature	-40 °C ... 85 °C
Air humidity	≤ 95% (w/o condensation)
Type of protection	IP67
Housing	Die cast aluminum
Color	red, similar to RAL 3000
Weight	approx. 991 g (incl. base and bracket)
Dimensions	W: 130 mm H: 140 mm D: 92 mm



Detector base and mounting bracket are not supplied!

Heat Detectors

782310



Heat detector UniVario



Features

- Microcontroller functional monitoring of heat sensors as well as software and hardware
- Quick fire detection with high level of protection against false alarms
- Comparison to typical false variables using intelligent evaluation algorithms
- High level of electromagnetic compatibility
- Various mounting possibilities
- Oil-tight and high level IP 67 protection class as well as resistance to impact and vibration

Approval: G 211039

For detection of open fires with fast development of heat. For usage in polluted industrial environments, interior and exterior areas. Voltage supply and connection occur directly via the standard detector zone at the esserbus transponder (Part No. 808623.10). The detector is also reset directly via the esserbus transponder.

Technical Data

Operating voltage	9 V DC
Quiescent current	approx. 0.15 mA
Alarm current @ 9 V DC	typ. 15 mA
Response temperature	0 °C ... 90 °C
Ambient temperature	-20 °C ... 80 °C
Storage temperature	-40 °C ... 85 °C
Air humidity	≤ 95%
Type of protection	IP 67
Housing	Die cast aluminum
Color	red, similar to RAL 3000
Weight	approx. 995 g (incl. base and bracket)
Dimensions	W: 130 mm H: 140 mm D: 85 mm



Detector base and mounting bracket are not supplied!

782302



Heat detector UniVario, 200 mm



Approval: G 211040

Same as 782310, but with sensor rod length of 200 mm.

Technical Data

Quiescent current	approx. 0.25 mA
Response temperature	54 °C ... 400 °C
Weight	approx. 1 kg



Detector base and mounting bracket are not supplied!

782303



Heat detector UniVario, 400 mm

Same as 782302, but with sensor rod length of 400 mm.

Technical Data

Weight	approx. 1.1 kg
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Detector base and mounting bracket are not supplied!

782304



Heat detector UniVario, 600 mm

Same as 782302, but with sensor rod length of 600 mm.

Technical Data

Weight	approx. 1.2 kg
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Detector base and mounting bracket are not supplied!

782306



Heat detector UniVario, 2 m



Same as 782310, but with sensor tube for installation in areas with poor accessibility such as shafts and canals.

Technical Data

Response temperature	54 °C ... 400 °C
Weight	approx. 1.3 kg



Detector base and mounting bracket are not supplied!

782307



Heat detector UniVario, 6 m

Same as 782306, but with sensor tube length of 6 m.

Technical Data

Weight	approx. 1.4 kg
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Detector base and mounting bracket are not supplied!

782308



Heat detector UniVario, 9 m

Same as 782306, but with sensor tube length of 9 m.

Technical Data

Weight	approx. 1.5 kg
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Detector base and mounting bracket are not supplied!

Accessories

783312



Mounting bracket for UniVario flame detectors



Mounting bracket for alignment of the industrial flame detectors UniVario. Simple installation with base Part No. 783313.

783313



Standard base UniVario



Standard detector base for detectors of the UniVario product family.

Technical Data

Weight	approx. 350 g
Dimensions	W: 130 mm H: 140 mm D: 36 mm

Features

- Simple detector exchange via standard base principle
- Fast installation via simple plug-in
- Generous space for cabling for user-friendly installation

Explosion-Proof Detectors

761347



IR flame detector (ex) X 9800



Features

- Visual range: 90°
- Maintenance with magnets, no test lamp required
- Status display directly at the detector via 3-color LED for operation, fault and alarm
- Actuation and resetting via esserbus transponder 808623 in loop operation

Approval: VdS, ATEX

The pressure-proof, fully enclosed infrared flame detector particularly distinguishes itself through reliable operation in difficult conditions. An integrated LED and three relays provide information regarding the state of operation, failure, and alarm. Contamination resistance and heated optics to prevent condensation and formation of ice also allow for external operation. Typical areas of application are turbines, petrochemistry and the automotive industry.

Activation on the loop and resetting take place via the esserbus transponder 808623. Activation on a conventional line occurs via the same transponder. This device requires a separate voltage supply of 24 V DC.

Technical Data

Operating voltage	24 V DC
Current consumption @ 24 V DC	approx. 87.5 mA
Display	max. 25 m
Height to be monitored	max. 20 m
Ambient temperature	-40 °C ... 75 °C
Storage temperature	-55 °C ... 85 °C
Air humidity	< 95 % (non-condensing)
Ex-category	II 2 GD
Explosion protection	EEx d IIC T5-T6, T86°C
Type of protection	IP 66
Housing	Die cast aluminum
Weight	approx. 2.7 kg (+ 6.0 kg fixture)
Detector specification	EN 54-10, Class 1
EC-type examination certificate	DEMKO 02 ATEX 132195
Dimensions	Ø: 122 mm H: 246 mm



Please note: for mounting of the holder, a 14 mm Allen key is necessary and is not included in delivery.



Mounting bracket

761349



UV/IR flame detector (ex) X 5200



Features

- Visual range: 90°
- Maintenance with magnets, no test lamp required
- Status display directly at the detector via 3-color LED for operation, fault and alarm
- Actuation and resetting via esserbus transponder 808623 in loop operation

Approval: VdS, ATEX

Since it can be mounted, the pressure-proof, fully enclosed combination ultraviolet/infrared flame detector enables UV and IR transmitters to monitor the same danger zone with a visual angle of 90°. Triggering occurs only by activation of the IR and UV sensors. A LED provides information regarding the state of operation, failure and alarm. Three relays (fire, failure and additional alarm) are integrated for connection to a fire detection system. Contamination resistance and heated optics to prevent condensation and formation of ice also allow for external operation. Typical areas of application are turbines, munitions depots, natural gas depots and aircraft hangers.

Activation on the loop and resetting take place via the esserbus transponder 808623. Activation on a conventional line occurs via the same transponder. This device requires a separate voltage supply of 24 V DC.

Technical Data

Operating voltage	24 V DC
Current consumption @ 24 V DC	approx. 117 mA
Display	max. 25 m
Height to be monitored	max. 20 m
Ambient temperature	-40 °C ... 75 °C
Storage temperature	-55 °C ... 85 °C
Air humidity	< 95 % (non-condensing)
Ex-category	II 2 GD
Explosion protection	EEx d IIC T5-T6, T86°C
Type of protection	IP 66
Housing	Die cast aluminum
Weight	approx. 2.7 kg (+ 6.0 kg fixture)
Detector specification	EN 54-10, Class 1
EC-type examination certificate	DEMKO 02 ATEX 132195
Dimensions	Ø: 122 mm H: 246 mm



Please note: for mounting of the holder, a 14 mm Allen key is necessary and is not included in delivery.



Mounting bracket

781443



Venturi air duct module for IQ8Quad OTblue-LKM (802379)



Features

- Single-tube air analysis system based on the Venturi principle
- Optimum utilization of air flow velocity through new Venturi tube design
- Integrated maintenance opening in the front cover so that air duct smoke detector can be tested
- Suitable for air duct widths from 0.6 to 2.8 m
- Integrated air flow display

Ventilation air duct module for usage of the OTblue-LKM Part No. 802379 air duct smoke detector in combination with Venturi tubes Part No. 781446, 781447 or 781448. The module is mounted on the outside of the air ducts.

The Venturi tube enters the duct and leads the air out of the duct through the detection chamber of the detector back to the duct and finally back into the duct. During operation, the detector and the alarm LED is visible so that an external parallel detector indicator is not required.

The housing need not be opened for maintenance purposes. Inspection of the detector be performed quickly and easily via a separate opening in the front of the housing.

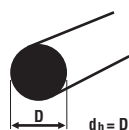
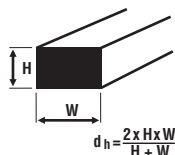
Technical Data

Type of protection	IP 54
Housing	ABS plastic
Color	gray
Weight	approx. 800 g
Dimensions	W: 180 mm H: 235 mm D: 183 mm

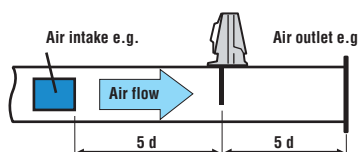
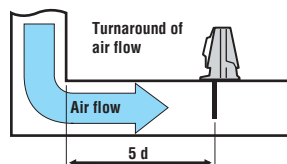


Construction kit includes pipe gasket and cap. The following items are not included: IQ8Quad OTblue LKM or detector base as well as the Venturi tube or filter cartridge.

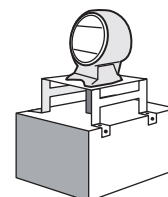
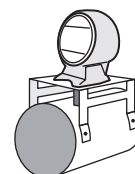
Correct diameter calculation d_h :



Correct assembly site



Mounting on air ducts with mounting kit Part No. 781449



Application example with detector

Accessories

802379



OTblue-LKM multisensor fire detector IQ8Quad with isolator

**Approval: VdS**

Specially addressable IQ8Quad multisensor fire detector for application as air duct smoke detector in construction kit Part No. 781443. The detection methods are based on state-of-the-art sensor technology that enables the detection of open fires, smoldering fires and fires with intense heat generation. In addition to that, extremely small particles can be detected without using ionization detectors. The loop isolator is integrated in the detector.

Technical Data

Operating voltage	9 ... 42 V DC
Quiescent current @ 19 V DC	approx. 50 µA
Quiescent current @ FACP battery	approx. 200 µA @ 27,5 V approx. 280 µA @ 42 V
Air speed	1 ... 20 m/s
Application temperature	-20 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Type of protection	IP 43 (with base + option)
Housing	ABS plastic, white, similar RAL 9010
Weight	approx. 110 g
Detector specification	EN 54-7
Specification	EN 54-7/-17, CEA 4021
Dimensions	Ø: 117 mm H: 62 mm (incl. base)



Only suitable for application in air duct construction set 781443.

Accessories

805590 Standard detector base for IQ8Quad

805591 Detector base with relay contact for IQ8Quad

781444



Filter cartridge for air duct module 781443



For use in unclean environmental conditions.

781446



Venturi tube for IQ8Quad air duct construction set 781443, 0.6 m



Venturi tube 0.6 m for application with air duct construction set Part No. 781443 between 140 mm and 600 mm.

Technical Data

Material	aluminum
----------	----------



Required borehole in the duct: 38 mm

781447



Venturi tube for IQ8Quad air duct construction set 781443, 1.5 m



Venturi tube 1.5 m for application with air duct construction set Part No. 781443 between 600 mm and 1400 mm.

Technical Data

Material	aluminum
----------	----------



Required boreholes in the duct: 38 mm below and 50 mm above.



Venturi tube, plastic gasket and rubber seal

781448



Venturi tube for IQ8Quad air duct construction set 781443, 2.8 m



Venturi tube 2.8 m for application with air duct construction set Part No. 781443 between 1400 mm and 2700 mm.

Technical Data

Material aluminum



Required boreholes in the duct: 38 mm below and 50 mm above.



Venturi tube, plastic gasket and rubber seal

781449



Mounting set for round and insulated air ducts



Mounting set for mounting the Part No. 781443 air duct construction set to round and / or insulated air ducts.



Venturi tube, plastic gasket and rubber seal

781445



Weather protection housing for air duct construction set 781443



Protects the air duct detector in difficult environmental conditions such as during use in outside areas.

The weather resistant housing can be subsequently fixed above the already mounted and installed air duct module Part No. 781443.

Technical Data

Type of protection	IP65
Material	galvanized steel
Weight	approx. 1.8 kg
Dimensions	Ø: 282 mm H: 280 mm



Opened condition

Linear Heat Detector LWM

761290



Linear heat detector LWM-1



Features

- Maximum sensor length of 300 m
- Resistant against mechanical and chemical impact, corrosion, humidity and dust
- Calibration switch setting
- VdS approval as per EN 54-5 A1 applicable up to 7.5 m ceiling height
- Suitable for application in hazardous areas
- Early fire detection with heat detector classes A1, A2, B and C
- High chemical and / or mechanical resilience by using special sensor cables
- 2 floating relay contacts for fire and fault disturbances
- Separate reset input for resetting via esserbus transponder 808623 during loop operation

Approval: VdS

The LWM-1 enables early detection of fires or overheating. It is specifically designed for application in narrow rooms or rough environmental conditions. The system consists of an LWM-1 evaluation unit and a special sensor cable, which must be selected according to the type of application. The actuation on the loop and the resetting function is carried out via the esserbus transponder Part No. 808623.

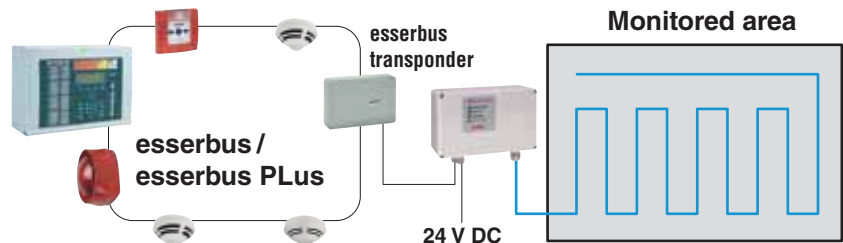
Actuation on a conventional line is carried out via the same transponder. The device requires a separate voltage supply of 24V DC for the galvanic separation of D.C. voltage potentials and the voltage converter Part No. 781337 must be used in order to avoid ground faults.

Technical Data

Operating voltage	10 ... 30 V DC
Quiescent current @ 24 V DC	approx. 25 mA
Current consumption @ 24 V DC	approx. 25 mA (DIFF- or MAX-alarm)
Starting current @ 24 V DC	< 100 mA
Current consumption in the case of failure	max. 15 mA
Display	LED green: in operation, permanent light; LED red: alarm diff., permanent light, locked; LED red: alarm max., permanent light, locked; LED yellow: fault, flashing light, locked
Range	max. 300 m, dependent on ambient temperature
Temperature range	-20 °C ... 50 °C
Air humidity	≤ 95% (w/o condensation)
Type of protection	IP 65
Material	ABS plastic
Color	gray similar to RAL 7035
Weight	approx. 550 g
Maximum sensor length	max. 300 m
Dimensions	W: 200 mm H: 120 mm D: 80 mm



The fastening clamp for mounting the line heat detector can be purchased at wholesale. For application in Ex areas please read the explanation in the manual.



Application example

Accessories

761243

**Termination link set for sensor cable**

The set contains four links for one end point.

761244

**Connection link set for sensor cable**

The set contains six links for one interconnection point.

761245

**Sensor cable, blue**

Sensor cable for use in non-aggressive atmosphere, but with high humidity for the Part No. 761290 line heat detector.

Technical Data

Dimensions Ø: 3.15 mm



The price stated is the price per meter. Order quantity at least 5 m or a multiple thereof.

761246

**Sensor cable, black**

Sensor cable with nylon cover for protection against acids and bases for the Part No. 761290 line heat detector.

Technical Data

Dimensions Ø: 4.8 mm



The price stated is the price per meter. Order quantity at least 5 m or a multiple thereof.

761247

**Sensor cable, black, with steel braiding**

For reducing the mechanical loading of the cable under extreme conditions for the line type heat detector Part No. 761290, the sensor cable is additionally protected by a stainless steel braid.

Technical Data

Dimensions Ø: 5.8 mm



The price stated is the price per meter. Order quantity at least 5 m or a multiple thereof. Cancellations or returns are not possible.

Linear Smoke Detector LRMX

Features

- Motorized detector head
- User-friendly commissioning via automatic self-adjustment
- Disturbance-protected operation via automatic electromechanical tracking of the detector head during building movements
- Optimal access via remote operating unit at eye level
- Clear representation of all states via central indicator display on the operating unit
- High level of IP protection for usage under difficult environmental conditions
- Activation and reset via esserbus transponder 808623 during loop operation
- Ranges from 5 to 100 m
- Large assortment of accessories

The LRMX Line Smoke Detector marks a new generation of infrared light-beam detectors in compliance with EN 54-12.

Based on the light absorption principle, the sender sends a pulsated infrared beam of light to the prism reflectors which are to be mounted opposite the detector. These prisms reflect the light back to the receiver. If smoke should enter the infrared light beam and dim it to a defined degree, a signal is forwarded via the esserbus transponder to the FACP. Both fire alarms as well as disturbance alarms are forwarded to the FACP.

The prominent feature of this new generation is the automatic alignment at initial start-up and the regular adjustment of the detector head via the integrated engine in the detector. This simplifies start-up considerably and thus it can be carried out more quickly. Due to the automatic self-adjustment of the detector during even the slightest building movements, as for example due to length extensions, temperature variations, etc., the LRMX can always retain the optimal position of the initial alignment and thus is even more protected from disturbance.

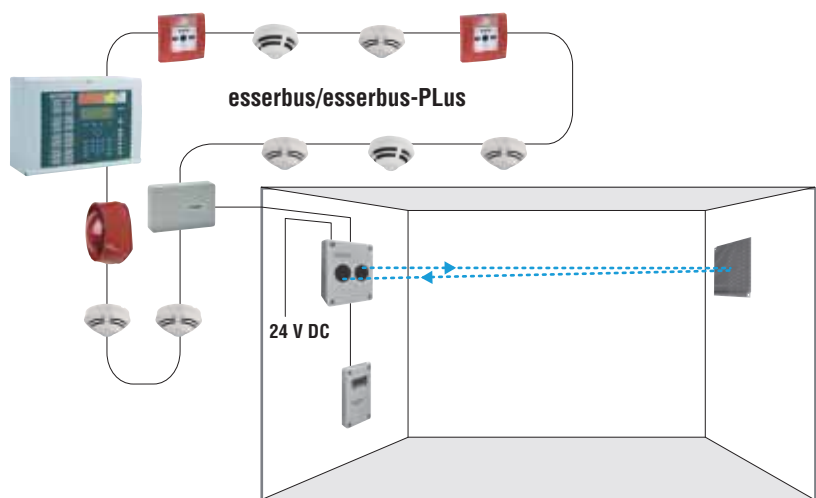
Operation is user-friendly via the ground-level operating and control unit which is operated remotely from the detector. The power is supplied directly to the detector, so that in the case of an operating and control unit failure, continuing operation of the LRMX is guaranteed.

The operating and control indicator has an indicator display which shows all reports and states clearly and at eye-level.

With the aid of the display, a manual alignment of the detector is also possible even in the case of very difficult initiation conditions, as the horizontal and vertical coordinates of the infrared light-beam are represented in detail.

The connection to the esserbus-loop is carried out via the esserbus transponder 808623 in the usual manner. Resetting can also be easily carried out via this esserbus transponder: using the tools 8000 programming and service software, the relays on the transponder can be programmed as reset relays and the reset time can be set individually.

In conclusion, the LRMX on the esserbus represents a significant advance in the world of line smoke detectors and guarantees an extremely high degree of disturbance-free and low-maintenance operation.



Application example

761400.10



Linear smoke detector LRMX



Features

- Motorized detector head
- User-friendly commissioning via automatic self-adjustment
- Disturbance-protected operation via automatic electromechanical tracking of the detector head during building movements
- Optimal access via remote operating unit at eye level
- Clear representation of all states via central indicator display on the operating unit
- High level of protection from moisture for usage under difficult environmental conditions
- Activation and reset via esserbus transponder 808623 during loop operation

Approval: VdS

The linear smoke detector in compliance with EN 54-12 consists of detector, operating and control unit and one prism reflector.

The connection to the esserbus and the resetting is carried out via the esserbus transponder 808623. The connection to a conventional detector zone is carried out via the same transponder Part No. 781332.

This device requires an external voltage supply of 24 V DC for the galvanic separation of D.C. voltage potentials and the voltage converter Part No. 781337 is to be used in order to avoid ground faults.

This device works with the use of a prism reflector at a range from 5 m to 40 m. At larger ranges, the range extender (Part No. 761401.10 and 761402.10) should be used.

Technical Data

Operating voltage	10.2 ... 40 V DC
Current consumption	3 mA (in all operational states)
Range	5 to 40 m
Ambient temperature	-10 °C ... 55 °C
Air humidity	10...95 %
Type of protection	IP65
Weight	approx. 2.05 kg
Dimensions	W: 155 mm H: 180 mm D: 137 mm
	W: 120 mm H: 185 mm D: 62 mm (operating unit)
	W: 100 mm H: 100 mm D: 9 mm (single prism)



The LRMX is available on request with built-in heating and front plate with nano coating. Please note that the LRMX with built-in heating has not been VdS-approved!

Please also note: the reflector is no longer included with delivery and must be ordered separately!



Detector, operating and control unit, 1 prism reflector 10 x 10 cm

Reflectors and Accessories



The individual reflectors and reflector sets can also be used with the Fireray products. However, please observe the additional planning information in the relevant functional descriptions.

761401.10



Reflector set for LRMX, for ranges of up to 80 m



Metal reflector set for LRMX range extension of up to 80 m.

Technical Data

Range	5 ... 80 m
Dimensions	W: 370 mm H: 370 mm D: 7 mm



Steel plate; 4 x reflector 761403

761402.10



Reflector set for LRMX, for ranges of up to 100 m



Metal reflector set for range extension of LRMX up to 100 m.

Technical Data

Range	5 ... 100 m
Dimensions	W: 370 mm H: 370 mm D: 7 mm



Reflector sets also available on request with water-repellent reflectors Part No. 761413 (nano coating) or additional built-in heating.

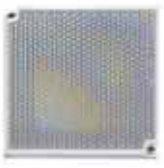


Steel plate; 9 x reflector 761403

761403



Single reflector for LRMX



Replacement prism – single reflector for usage with the line smoke detector (Part No. 761400.10).

Technical Data

Range	5 ... 40 m
Dimensions	W: 100 mm H: 100 mm

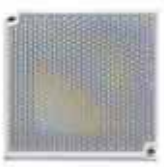


Reflector sets also available on request with water-repellent surface or additional built-in heating.

761413



Nano coated reflector for LRMX



Reflector sets also available on request with water-repellent surface or additional built-in heating.

761404.10



Ceiling holder for LRMX, for distances from 40 to 70 cm



For better mounting of the line smoke detector (Part No. 761400.10) on walls, girders, ceilings and beams. The ceiling bracket is made of aluminum and can be adjusted in length anywhere from 40 to 70 cm. A high-grade ball joint mounting bracket is located on the top side for easy wall/ceiling mounting. The ceiling bracket is suitable for attaching the mounting plate Part No. 761406.

Technical Data

Weight	approx. 2.3 kg
--------	----------------



Ceiling bracket incl. mounting material for the aluminum holder but does not include material for mounting of the holder on ceilings, walls or beams.

Features

- For easy ceiling and wall mounting in compliance with DIN VDE 0833-2
- Optimal alignment of detector and reflectors under difficult ambient conditions via ball joint mounting bracket
- Extendable ceiling bracket for flexible adjustment of length for distances of 400 to 700 mm
- Invisible cable routing inside the ceiling
- Capacity 25 kg
- Swivel hinge approx. 180°
- Ball joint approx. 90° and holding fixture for prism reflector
- RAL 9010 (pure white) surface

761405.10



Ceiling holder for LRMX, for distances from 70 to 150 cm

Same as 761404.10 but extendable for ceiling clearances from 70 to 150 cm.

Technical Data

Weight	approx. 3.3 kg
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761415



Ceiling holder for LRMX

Same as 761404.10 but 174 mm long rigid design.

Technical Data

Weight	approx. 4.3 kg
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761408



Flush mounted housing for LRMX



For the LRMX, consists of flush mounted tray and vertically adjustable cover plate frame with lockable front door.

Technical Data

Air humidity	0%...93%
Color	white, similar to RAL 9010
Weight	approx. 2.1 kg
Dimensions	W: 355 mm H: 275 mm D: 145 mm (total) W: 290 mm H: 200 mm D: 145 mm (flush mounting)

Features

- Mounting unit for the LRMX with 2 light cone apertures
- 6 pre-stamped cable ducts with predetermined breaking points

761414



Nano detector cover



Detector cover with nano coating for application to the front of the detector prevents steaming up of detector in difficult environments.

761406



Mounting plate for ceiling bracket for detector/single reflector



Mounting plate made of aluminum for attaching the line smoke detector Part No. 761400.10 or the prism reflector Part No. 761403 on the ceiling bracket.

761407



Mounting spider for ceiling bracket



Mounting spider for the ceiling brackets (Part No. 761404.10 and 761405.10) for alternative attachment of the reflector sets (Part No. 761401.10 and 761402.10) on the ceiling bracket.

Fireray

761315



Fireray 50 RV with 1 prism



Features

- A compact housing
- Maximum range 5 m to 50 m
- Robust construction
- Complies with EN 54-12 standard
- Actuation and resetting is carried out via the esserbus transponder (Part No. 808623) during loop operation

Approval: VdS

The detector consists of an infrared transmitter and receiver. The signal is reflected by a prism and analyzed by the receiving element. Signal reaching the threshold will trigger an alarm.

The actuation on the loop and the resetting function is carried out via the esserbus transponder (Part No. 808623).

Actuation on a conventional line is carried out via the same transponder. The device requires a separate voltage supply of 24 V DC.

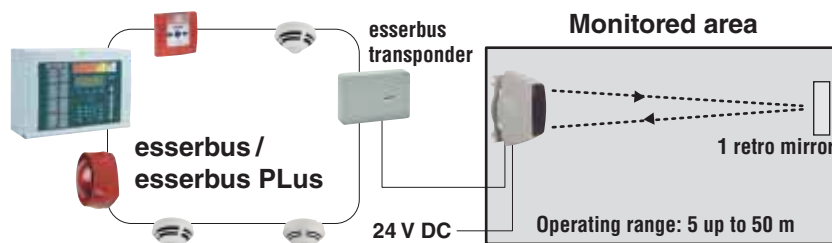
The Fireray is installed about 0.3 to 0.8 m underneath the ceiling and its reflector with the same ceiling distance opposite. There should be no reflecting obstacles in the transmission zone (approx. 2 degrees).

Technical Data

Operating voltage	10.2 ... 30 V DC
Quiescent current @ 24 V DC	approx. 4 mA
Contact load	max. 30 V DC / 1 A
Range	5 to 50 m
Ambient temperature	-20 °C ... 55 °C
Storage temperature	-35 °C ... 60 °C
Air humidity	0% ... 93%, (non-condensing)
Type of protection	IP50
Housing	ABS plastic, flame resistant
Color	gray, similar to RAL 7035
Weight	approx. 670 g
Detector specification	EN 54-12
Dimensions	W: 210 mm H: 117 mm D: 120 mm



1 x Prism (Part No. 761403)



Application example

761316



Fireray 100 RV with 4 prisms



Features

- One compact housing
- Maximum range 50 m to 100 m
- Robust construction
- Complies with EN 54-12 standard
- Actuation and resetting is carried out via the esserbus transponder (Part No. 808623) during loop operation

Approval: VdS

The detector consists of the infrared transmitter and receiver. The signal is reflected by a prism and analysed by the receiving element. Signal reaching the threshold will trigger an alarm.

The actuation on the loop and the resetting function is carried out via the esserbus transponder (Part No. 808623).

Actuation on a conventional line is carried out via the same transponder. The device requires a separate voltage supply of 24 V DC.

The Fireray is installed about 0.3 to 0.8 m underneath the ceiling and its reflector with the same ceiling distance opposite. There should be no reflecting obstacles in the transmission zone (approx. 2 degrees).

Technical Data

Operating voltage	10.2 ... 30 V DC
Quiescent current @ 24 V DC	approx. 4 mA
Alarm current @ 24 V DC	approx. 15 mA
Contact load	max. 30 V DC / 1 A
Range	50 to 100 m
Ambient temperature	-20 °C ... 55 °C
Storage temperature	-35 °C ... 60 °C
Air humidity	0 % to 93 %, (non-condensing)
Type of protection	IP 50
Housing	ABS plastic, flame resistant
Color	gray, similar to RAL 7035
Weight	approx. 670 g
Detector specification	EN 54-12
Dimensions	W: 210 mm H: 117 mm D: 120 mm



4 x Prisms (Part No. 761401.10)

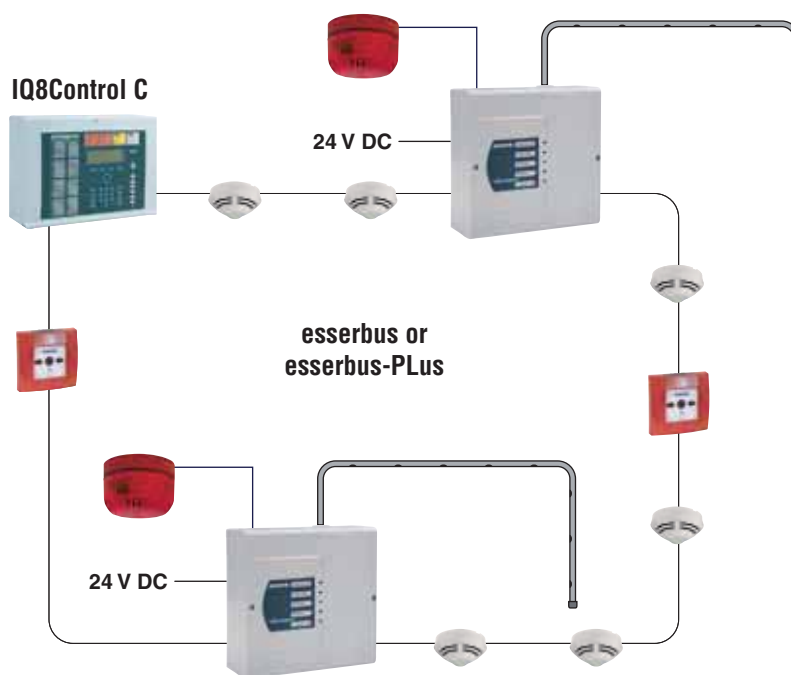
LRS-Loop Technology



Please note that separate training is required for the LRS aspirating smoke detection system. As part of this training, further details are provided on project planning as well as commissioning.

Required passwords are also given.

For further information, please contact your local sales representative.



Application example

801519.GB0



LRS compact/EB, English

Approval: VdS, LPCB

Same as 801519, but English version.

Phase-out-date: 01.01.2011

LRS Conventional Technology

761519



LaserFOCUS aspirating system, multilingual



Features

- Plug & play function (simple installation and commissioning)
- Laser based smoke detection
- Programmable alarm threshold value
- Two-level air filtering
- Integrated bargraph display
- Integrated debugging function
- Event memory for up to 18,000 events
- Relay output: 3 changeover relays
- Actuation and resetting is carried out via the esserbus transponder (Part No. 808623) during loop operation
- Stand-alone system

Approval: VdS

Active stand-alone detection system based on laser technology for the early detection of fires in small areas.

The actuation on the loop and the resetting function is carried out via the esserbus transponder (Part No. 808623). Actuation on a conventional line is carried out via the same transponder. The device requires a separate voltage supply of 24 V DC.

Technical Data

Operating voltage	18 ... 30 V DC
Quiescent current @ 24 V DC	approx. 220 mA
Current consumption @ 24 V DC	approx. 245 mA
Alarm current @ 24 V DC	approx. 295 mA
Area to be monitored	max. 250 m ²
Ambient temperature	0 °C ... 40 °C
Air humidity	5% ... 95% (without condensation)
Type of protection	IP 30
Weight	approx. 2 kg
CE certificate	0832-CPD-0771
Specification	EN 54-20 class A, B, C
Dimensions	W: 255 mm H: 185 mm D: 90 mm

761500



LRS 100 aspirating smoke detector unit, German



Approval: VdS

Early fire detection system based on laser technology. The system is optimized for use in the following areas: air conditioned areas (e.g. data processing rooms), laboratories and clean rooms, rooms with valuable things (e.g. museum).

The actuation on the loop and the resetting function is carried out via the esserbus transponder (Part No. 808623).

Actuation on a conventional line is carried out via the same transponder. The device requires a separate voltage supply of 24 V DC.

Features

- Adjustable sensitivity from 0.005 % / m up to 20 % / m obscuration
- 4 programmable alarm levels (alarm, pre-alarm, fire 1, fire 2)
- All alarm levels can be assigned to a time window from 0 – 60 s to prevent false alarms
- 2 fault levels (maintenance, fault)
- 7 free configurable potential free contacts (30 V DC/1 A)
- Monitoring of filter and air flow to support service
- Event memory up to 18.000 entries
- Day/night operation (different sensitivity levels)
- Connection of up to 4 pipes per detector unit with an overall length of up to 200 m. It is possible to extend the overall length under consideration of the air transport time (100 s according to the VdS)
- Auto learn function to determine the best sensitivity level (the system stays armed during the self learning algorithm)
- Programmable with tools LRS 200 (Part No. 761504) / 210 (Part No. 761505) or with a PC and the PC-interface LRS 300 (Part No. 761506) and Windows© software (Part No. 797595) CD ROM with Software VConfig PRO and ASPIRE (these components are not supplied as standard)
- It is possible to compensate the environmental conditions with a reference detector
- Integration of up to 99 detector systems by the bus system "VESDAnet™"
- The alarm, fault and operation status is shown on the front panel
- Pipe configuration with "ASPIRE" software, with VConfig PRO and ASPIRE
- Actuation and resetting is carried out via the esserbus transponder (Part No. 808623) during loop operation

Technical Data

Operating voltage	18 ... 30 V DC
Current consumption	240 mA to 500 mA
Contact load	30 V DC/1 A
Connection terminal	0,2 ... 2,5 mm ²
Ambient temperature	0 °C ... 39 °C
Air humidity	10% ... 95% (without condensation)
Type of protection	IP 30
Housing	metal
Color	gray
Weight	approx. 3.5 kg
CE certificate	0832-CPD-0768
Specification	EN 54-20 class A, B, C
Dimensions	W: 350 mm H: 225 mm D: 110 mm

762400



LRS 100 aspirating smoke detector unit, English

Approval: VdS

Same as 761500, but English version.

762430



LRS 100 aspirating smoke detector unit, Spanish

Same as 761500, but Spanish version.

761502



LRS-S 700 aspirating smoke detector unit, German



Approval: VdS

Same as detector unit LRS 100 (Part No. 761500) but with integrated scanner module and 12 x relay board. Enabling the unit to analyze up to 4 pipes separately. Four different areas can be monitored. This unit has 12 configurable potential-free contacts (10 NO contacts, 2 changeover contacts), instead of 7 in the LRS 100.

Technical Data

Operating voltage	18 ... 30 V DC
Current consumption	240 mA to 500 mA
Contact load	30 V DC/1 A
Connection terminal	0.2 to 2.5 mm ²
Ambient temperature	0 °C ... 39 °C
Air humidity	10 % ... 95 % (without condensation)
Type of protection	IP30
Housing	metal
Color	gray
Weight	approx. 3.5 kg
CE certificate	0832-CPD-0769
Specification	EN 54-20 class A, B, C
Dimensions	W: 350 mm H: 225 mm D: 110 mm

761515



LRS compact, German



Approval: VdS

Active stand-alone early fire detection system using laser technology.

The actuation on the loop and the resetting function is carried out via the esserbus transponder (Part No. 808623) Actuation on a conventional line is carried out via the same transponder. The device requires a separate voltage supply of 24 V DC.

Technical Data

Current consumption	170 ... 190 mA
Contact load	30 V DC/2 A
Connection terminal	0.2 to 2.5 mm ²
Ambient temperature	-10 °C ... 39 °C
Storage temperature	-20 °C ... 60 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP30
Housing	polycarbonate
Color	gray, similar to RAL 7035
Weight	approx. 1.9 kg
CE certificate	0832-CPD-0770 /-0986
Specification	EN 54-20 : 2006
Dimensions	W: 225 mm H: 225 mm D: 85 mm

Features

- Adjustable sensitivity from 0.005 % / m up to 20 % / m obscuration
- 3 programmable alarm thresholds (alarm, pre alarm, main alarm).
- For an increased protection from false alarms, all alarm thresholds can be given a time window of 0 – 60 sec
- 2 fault levels (maintenance, fault)
- 3 potential-free contacts (switching capacity 30 V DC/2 A) consisting of 1 potential-free changeover contact and 2 potential-free switching contacts
- Filter and air stream monitoring for easier maintenance
- Event memory for up to 12,000 events
- For use with an extraction tube with a total length of max. 80m (2 x 50 m)
- Automatic learning function for determining optimum sensitivity level (the units remain operative during this learning phase)
- Adjustments can be made by means of a PC in combination with VConfig PRO and ASPIRE Windows software and a standard interface cable w/o interface (modules are not supplied as standard)
- Main alarm, pre alarm, trouble and operation status are indicated on the front panel
- Actuation and resetting is carried out via the esserbus transponder (Part No. 808623) during loop operation
- Stand-alone system

761516



LRS compact/net, German



Features

- Adjustment by means of programming unit LRS 200 (Part No. 761504) / 210 (Part No. 761505) or PC with PC interface LRS 300 (Part No. 761506) and with Software VConfig PRO and ASPIRE Windows software (modules are not supplied as standard)
- The environmental conditions may be compensated by using an additional reference detector
- Integration of up to 99 detector units via the proprietary "VESDAnet™" bus system
- Indicating and operating panel can be connected via the VESDAnet™ (Part No. 761501, 761507)

Approval: VdS

Technical Data

Operating voltage	18 ... 30 V DC
Current consumption	170 ... 190 mA
Contact load	30 V DC/2 A
Connection terminal	0.2 to 2.5 mm ²
Ambient temperature	-10 °C ... 39 °C
Storage temperature	-20 °C ... 60 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP30
Housing	polycarbonate
Color	gray, similar to RAL 7035
Weight	approx. 1.9 kg
CE certificate	0832-CPD-0770 /-0986
Specification	EN 54-20 : 2006
Dimensions	W: 225 mm H: 225 mm D: 85 mm

762403



LRS-S 700 aspirating smoke detector unit, English

Approval: VdS

Same as 761502, but English version.

762416



LRS compact, French

Same as 761515, but French version.

762407



LRS compact/net, English

Approval: VdS

Same as 761516, but English version.

762417



LRS compact/net, French



Approval: VdS

Same as 761516, but French version.

Features

- Adjustment by means of programming unit LRS 200 (Part No. 761504) / 210 (Part No. 761505) or PC with PC interface LRS 300 (Part No. 761506) and with Software VConfig PRO and ASPIRE Windows software (modules are not supplied as standard)
- The environmental conditions may be compensated by using an additional reference detector
- Integration of up to 99 detector units via the proprietary "VESDAnet™" bus system
- Indicating and operating panel can be connected via the VESDAnet™ (Part No. 761501, 761507)

Accessories for LRS Systems

761501

**Indicator and operating module LRS 110, German****Approval: VdS**

For displaying the current smoke density and the alarm level of the LRS 100 detector unit and the LRS compact/net. In addition, the alarm and fault status are shown by LEDs. Different functions e.g. buzzer off and reset can be controlled via the key pad. The unit is also equipped with 7 freely configurable, floating contacts.

Technical Data

Operating voltage	18 ... 30 V DC
Current consumption	110 ... 130 mA
Connection terminal	Ø 0,2 ... 2,5 mm ²
Ambient temperature	0 °C ... 39 °C
Type of protection	IP30
Housing	metal
Color	gray, similar to RAL 7035
Weight	approx. 1 kg
Dimensions	W: 140 mm H: 150 mm D: 90 mm



As the LRS compact/net recognizes up to three alarm states, the LEDs for main alarm 1 and main alarm 2 are activated jointly.
Programming via interfaced network.

761517

**VESDAnet™ connection box**

This connection box enables external devices to be connected to the VESDAnet™. For example, a handheld programmer or a PC can be connected in conjunction with the PC interface to program the system.

761506

**LRS 300 PC interface**

Used as an alternative to the programming unit. All components on the VESDAnet™ can be programmed via the interface.

Technical Data

Current consumption	70 mA
Dimensions	W: 190 mm H: 100 mm D: 40 mm



The two required connectors are included.

761512

**Spare filter for VESDA aspirating smoke systems**

Two-stage spare filter for detector units:

- LRS 100 (Part No. 761500)
- LRS-S 700 (Part No. 761502)
- LRS compact (Part No. 761515)
- LRS compact/net (Part No. 761516)
- LRS compact/EB (Part No. 801519)
- LaserFOCUS (Part No. 761519)

Only German version is mentioned above, but all other language versions are included.

762401

**Indicator and operating module LRS 110, English****Approval: VdS**

Same as 761501, but English version.

762411



Indicator and operating module LRS 110, French

Same as 761501, but French version.

Technical Data

Operating voltage	18 ... 30 V DC
Current consumption	110 ... 130 mA
Connection terminal	Ø 0,2 ... 2,5 mm ²
Ambient temperature	0 °C ... 39 °C
Type of protection	IP30
Housing	metal
Color	gray, similar to RAL 7035
Weight	approx. 1000 g
Detector specification	EN 54-20
Dimensions	W: 140 mm H: 150 mm D: 90 mm



As the LRS compact/net recognizes up to three alarm states, the LEDs for main alarm 1 and main alarm 2 are activated jointly.

For flush mounting, order kit with Part No. 761511 separately.
Programming via interfaced network.

761509



Filter for LRS aspirating system

External filter for LRS aspirating system for extremely polluted environments.



Technical Data

Color	gray, similar to RAL 7035
Dimensions	W: 206 mm H: 59 mm D: 33 mm

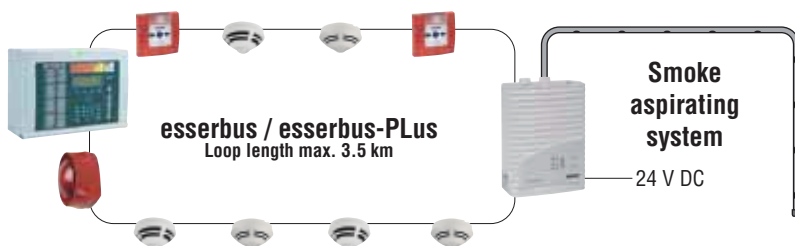
Titanus EB

Features

- Highest application flexibility through modular design
- Fully integrated esserbus device and direct connection to the esserbus/esserbus-PLus (powered loop)
- Programming and commissioning via the FACP (System 8000 / IQ8Control / FlexES)
- Easy commissioning through pre-set system configuration at delivery
- Parameters for response sensitivity can be configured at the detector module
- Up to 180 m duct length per duct
- Up to 24 suction vents
- Two-detector dependency can be set up in compliance with VdS guidelines
- Parallel detector indicator (Part No. 801824) can be connected

New:

- Direct reset via integrated reset function



Type	Pro Sens			Top Sens		Pro Sens SL		
Part Number	801515.10	801521.10	801522.10	801531.10	801532.10	801521.10.SL	801522.10.SL	781531.10.SL
Manufacturer-configured for operation with one pipe	X	X		X		X		X
Manufacturer-configured for operation with two pipes			X		X		X	
"Info alarm" display at the unit and at the fire alarm panel				X	X			X
"Pre-alarm" display at the unit and at the fire alarm panel				X	X			X
"Fire alarm" display at the unit and at the fire alarm panel	X	X	X	X	X	X	X	X
"Fault" display at the unit and at the fire alarm panel	X	X	X	X	X	X	X	X
Reduced operating noise						X	X	X
Bargraph				X	X			X
Plug-and-play commissioning	X							
Direct connection to the esserbus/powerd loop	X	X	X	X	X	X	X	X
Operating temperature range from -10°C to +55°C	X	X	X	X	X	X	X	X

Application example

801515.10



Compact unit Titanus Pro Sens EB



Features

- Fire and fault indication directly at the unit and at the FACP
- Fast commissioning through automatic initializing process and plug & play operation
- Air flow monitoring for detecting pipe burst or tube blocking
- Protection against disturbances when implemented LOGIC SENS function is activated
- Integrated and pre-configured detector module (Part No. 801523.10)

Approval: VdS

Active system for the early detection of fires. It serves as room and furnishing protection and can be directly connected to the esserbus/powered loop. The compact aspirating smoke detection system Titanus Pro Sens EB is completely supplied with detector module DM-TP-50L. Plug & play operation for fast and simple commissioning through pre-programmed standard functions and pre-configured detector modules.

Technical Data

Operating voltage	14 ... 30 V DC
Quiescent current @ 24 V DC	approx. 275 mA at 9 V fan voltage
Current consumption	of the reset PCB max. 20 mA
Contact load relay	30 V DC/1 A max. 24 W
Connection terminal	max. 1.5 mm ²
Ambient temperature	-20 °C ... 60 °C
Storage temperature	-25 °C ... 65 °C
Air humidity	≤ 95% w/o condensation
Type of protection	IP20
Housing	ABS plastic
Color	white, similar to RAL 9018
Weight	approx. 1.35 kg
CE certificate	0786-CPD-20791
Specification	EN 54-20
Dimensions	W: 200 mm H: 292 mm D: 113 mm



The previously required isolator and the reset PCB is no longer required to be fitted to this detector and is no longer available to order. The detector is now fitted as standard with the esserbus alarm transponder which incorporates all of the functions for which these devices provided.

Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured Titanus Pro Sens EB basic device including esserbus transponder and reset PC board as well as the Titanus Pro Sens EB front foil and pre-configured detector module DM-TP-50L.

801521.10



Basic unit Titanus Pro Sens EB



Features

- Pre-configured for connecting a DM-TP-xx detector module
- Optical status display for alarm and fault indication at the front foil
- Extendable for integrating up to two DM-TP-xx detector modules to connect a second tube
- Ports for two suction tubes with outside diameter of 25 mm
- Port for air return tube

Approval: VdS

Basic unit for wall mounting, ready to accommodate a DM-TP-xx detector module. The Titanus Pro Sens EB can be directly connected to the esserbus/powered loop. The unit is supplied with front foil for single-tube operation.

Technical Data

Operating voltage	14 ... 30 V DC
Quiescent current @ 24 V DC	approx. 275 mA at 9 V fan voltage
Current consumption	of the reset PCB max. 20 mA
Contact load relay	30 V DC/1 A max. 24 W
Connection terminal	max. 1.5 mm ²
Ambient temperature	-20 °C ... 60 °C
Storage temperature	-25 °C ... 65 °C
Air humidity	≤ 95% w/o condensation
Type of protection	IP20
Housing	ABS plastic
Color	white, similar to RAL 9018
Weight	approx. 1.35 kg
CE certificate	0786-CPD-20791
Specification	EN 54-20
Dimensions	W: 200 mm H: 292 mm D: 113 mm



The previously required isolator and the reset PCB is no longer required to be fitted to this detector and is no longer available to order. The detector is now fitted as standard with the esserbus alarm transponder which incorporates all of the functions for which these devices provided.

Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured basic device including esserbus transponder and reset PC board as well as the front foil.

801521.10.SL



Basic unit Titanus Pro Sens EB with silent fan

NEW



Features

- Pre-configured for connecting a DM-TP-xx detector module
- Optical status display for alarm and fault indication at the front foil
- Extendable for integrating up to two DM-TP-xx detector modules to connect a second tube
- Ports for two suction tubes with outside diameter of 25 mm
- Port for air return tube

Approval: VdS

Same as 801521.10, but premounted SL fan for operation in noise-sensitive areas. With the SL fan, the operating noise volume of the unit is reduced to a level as low as 23 dB (A) depending on ambient conditions.

Technical Data

Operating voltage	14 ... 30 V DC
Quiescent current @ 24 V DC	approx. 275 mA at 9 V fan voltage
Current consumption	of the reset PCB max. 20 mA
Contact load relay	30 V DC/1 A max. 24 W
Connection terminal	max. 1,5 mm ²
Ambient temperature	-20 °C ... 60 °C
Storage temperature	-25 °C ... 65 °C
Air humidity	≤ 95% w/o condensation
Type of protection	IP20
Housing	ABS plastic
Color	white, similar to RAL 9018
Weight	approx. 1.35 kg
CE certificate	0786-CPD-20791
Specification	EN54-20
Dimensions	W: 200 mm H: 292 mm D: 113 mm



Pre-configured basic device including esserbus transponder and reset PC board as well as the front foil.

801522.10



Basic unit Titanus Pro Sens 2 EB



Features

- Pre-configured for connecting a DM-TP-xx detector module
- Optical status display for alarm and fault indication at the front foil
- Extendable for integrating up to two DM-TP-xx detector modules to connect a second tube
- Ports for two suction tubes with outside diameter of 25 mm
- Port for air return tube

Approval: VdS

Basic unit for wall mounting, ready for receiving up to two detector modules DM-TP-xx. The Titanus Pro Sens 2 EB can be directly connected to the esserbus/powered loop. The device is supplied with front foil for two-tube operation.

Technical Data

Operating voltage	14 ... 30 V DC
Quiescent current @ 24 V DC	approx. 295 mA at 9 V fan voltage
Current consumption	of the reset PCB max. 20 mA
Contact load relay	30 V DC/1 A max. 24 W
Connection terminal	max. 1.5 mm ²
Ambient temperature	-20 °C ... 60 °C
Storage temperature	-25 °C ... 65 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP20
Housing	ABS plastic
Color	white, similar to RAL 9018
Weight	approx. 1.35 kg
CE certificate	0786-CPD-20791
Specification	EN 54-20
Dimensions	W: 200 mm H: 292 mm D: 113 mm



The previously required isolator and the reset PCB is no longer required to be fitted to this detector and is no longer available to order. The detector is now fitted as standard with the esserbus alarm transponder which incorporates all of the functions for which these devices provided. Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured basic device including esserbus transponder and reset PC board as well as the front foil.

801522.10.SL



Basic unit Titanus Pro Sens 2 EB with silent fan

NEW**Features**

- Pre-configured for connecting a DM-TP-xx detector module
- Optical status display for alarm and fault indication at the front foil
- Extendable for integrating up to two DM-TP-xx detector modules to connect a second tube
- Ports for two suction tubes with outside diameter of 25 mm
- Port for air return tube

Approval: VdS

Same as 801522.10, but with premounted SL fan for operation in noise-sensitive areas. With the SL-fan, the operating noise of the device drops to 23 dB (A) depending on the environmental conditions.

Technical Data

Operating voltage	14 ... 30 V DC
Quiescent current @ 24 V DC	approx. 295 mA at 9 V fan voltage
Current consumption	of the reset PCB max. 20 mA
Contact load relay	30 V DC/1 A max. 24 W
Connection terminal	max. 1.5 mm ²
Ambient temperature	-20 °C ... 60 °C
Storage temperature	-25 °C ... 65 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP20
Housing	ABS plastic
Color	white, similar to RAL 9018
Weight	approx. 1.35 kg
CE certificate	0786-CPD-20791
Specification	EN 54-20
Dimensions	W: 200 mm H: 292 mm D: 113 mm



Pre-configured basic device including esserbus transponder and reset PC board as well as the front foil.

801531.10



Basic unit Titanus Top Sens EB

**Features**

- Pre-configured for connecting a DM-TP-xx detector module
- Optical status display for alarm and fault indication at the front foil
- Extendable for integrating up to two DM-TP-xx detector modules to connect a second tube
- Ports for two suction tubes with outside diameter of 25 mm
- Port for air return tube

Approval: VdS

Basic unit for wall mounting, ready for receiving a detector module DM-TT-xx. It is provided with three alarm levels for information alarm, pre-alarm and main alarm as well as with a bargraph display to indicate the specific smoke density. The Titanus Pro Sens EB can be directly connected to the esserbus/powerd loop. The device is supplied with front foil for single-tube operation.

Technical Data

Operating voltage	14 ... 30 V DC
Quiescent current @ 24 V DC	approx. 260 mA at 9 V fan voltage
Current consumption	of the reset PCB max. 20 mA
Contact load relay	30 V DC/1 A max. 24 W
Connection terminal	max. 1.5 mm ²
Ambient temperature	-20 °C ... 60 °C
Storage temperature	-25 °C ... 65 °C
Air humidity	≤ 95 % w/o condensation
Type of protection	IP20
Housing	ABS plastic
Color	white, similar to RAL 9018
Weight	approx. 1.35 kg
Dimensions	W: 200 mm H: 292 mm D: 113 mm



The previously required isolator and the reset PCB is no longer required to be fitted to this detector and is no longer available to order. The detector is now fitted as standard with the esserbus alarm transponder which incorporates all of the functions for which these devices provided.

Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured basic device including esserbus transponder and reset PC board as well as the front foil.

781531.10.SL



Basic unit Titanus Top Sens 1 with silent fan



Features

- Pre-configured for connecting a DM-TP-xx detector module
- Optical status display for alarm and fault indication at the front foil
- Extendable for integrating up to two DM-TP-xx detector modules to connect a second tube
- Ports for two suction tubes with outside diameter of 25 mm
- Port for air return tube

Basic unit for wall mounting, ready for receiving a detector module DM-TT-xx. It is provided with three alarm levels for information alarm, pre-alarm and main alarm as well as with a bargraph display to indicate the specific smoke density. The Titanus Pro Sens EB can be directly connected to the esserbus / powered loop. The device is supplied with front foil for single-tube operation.

Technical Data

Operating voltage	14 ... 30 V DC
Quiescent current @ 24 V DC	approx. 260 mA at 9 V fan voltage
Current consumption	of the reset PCB max. 20 mA
Contact load relay	30 V DC/1 A max. 24 W
Sound level	approx. 45 dB(A) (with sound absorber part no. 801543)
Connection terminal	max. 1,5 mm ²
Ambient temperature	-20 °C ... 60 °C
Storage temperature	-25 °C ... 65 °C
Air humidity	≤ 95% w/o condensation
Type of protection	IP20
Housing	ABS plastic
Color	white, similar to RAL 9018
Weight	approx. 1.35 kg
Dimensions	W: 200 mm H: 292 mm D: 113 mm



The previously required isolator and the reset PCB is no longer required to be fitted to this detector and is no longer available to order. The detector is now fitted as standard with the esserbus alarm transponder which incorporates all of the functions for which these devices provided.



Pre-configured basic device including esserbus transponder and reset PC board as well as the front foil.

801532.10



Basic unit Titanus Top Sens 2 EB



Features

- Pre-configured for usage with two DM-TT-xx detector modules
- Optical status display for information alarm, pre-alarm, main alarm and fault indication
- Integrated bar graph display to optically indicate the current smoke level
- Ports for two suction tubes with an outside diameter of 25 mm
- Port for air return tube
- Possible two-detection-dependency as per VdS directive

Approval: VdS

Basic device for wall mounting, pre-configured to receive up to two DM-TT-xx detector modules.

The Titanus top Sens 2 EB is directly connectable to the esserbus/esserbus-PLus. The device is shipped equipped with the front foil for the double tube operation.

Technical Data

Operating voltage	14 ... 30 V DC
Quiescent current @ 24 V DC	approx. 275 mA at 9 V fan voltage
Current consumption	of the reset PCB max. 20 mA
Contact load relay	30 V DC/1 A max. 24 W
Connection terminal	max. 1,5 mm ²
Ambient temperature	-20 °C ... 60 °C
Storage temperature	-25 °C ... 65 °C
Air humidity	≤ 95% w/o condensation
Type of protection	IP 20
Housing	ABS plastic
Color	white, similar to RAL 9018
Weight	approx. 1.35 kg
Dimensions	W: 200 mm H: 292 mm D: 113 mm



The previously required isolator and the reset PCB is no longer required to be fitted to this detector and is no longer available to order. The detector is now fitted as standard with the esserbus alarm transponder which incorporates all of the functions for which these devices provided.

Isolator not included with delivery, can be optionally ordered under Part No. 788612.



Pre-configured basic device including esserbus transponder and reset PC board as well as the front foil.

Detector Modules for Titanus Pro Sens EB

801523.10

**Detector module 0.5 %/ m Type DM-TP-50**

Detector module for application in Titanus Pro Sens EB aspirating smoke detection systems (Part No. 801515.10, 801521.10, 801522.10) with a response sensitivity of 0.5 % light opacity/m.

Early fire detection via HPLS technology. Installation into Titanus Pro Sens EB systems without tools and adjustable via DIL switch on the outside of the detector module. The parameterization option allows sensitivity adjustments for the aspirating smoke detection system.

Features

- Response sensitivity adjustable at the module
- Fast commissioning through automatic initializing process
- Status display for status and fault diagnosis
- Installation into Titanus Pro Sens EB without tools
- Air flow monitoring for detecting pipe burst and tube blockage

Technical Data

Ambient temperature	-20 °C ... 60 °C
Housing	ABS plastic
Weight	approx. 100 g

801524.10

**Detector module 0.10 %/ m DM-TP-10L**

Same as 801523.10, but with raised response sensitivity of 0.10 % light opacity/m.

Technical Data

Ambient temperature	-20 °C ... 60 °C
Housing	ABS plastic
Weight	approx. 100 g

801525.10

**Detector module 0.015 %/ m DM-TP-01L**

Same as 801524.10, but with raised response sensitivity of 0.015 % light opacity/m.

Technical Data

Ambient temperature	-20 °C ... 60 °C
Housing	ABS plastic
Weight	approx. 100 g

Detector Modules for Titanus Top Sens EB

801533.10

**Detector module 0.5 %/ m DM-TT-50L**

Detector module for application in Titanus Top Sens aspirating smoke detection systems (Part No. 801531.10, 801532.10) with a response sensitivity of 0.5 % light opacity/m. Early fire detection via HPLS technology. Installation into Titanus Top Sens EB systems without using any tools and adjustable via DIL switch on the outside of the detector module. The parameter setting option allows sensitivity adjustments for the aspirating smoke detection system.

Technical Data

Ambient temperature	-20 °C ... 60 °C
Housing	ABS plastic
Weight	approx. 100 g

801534.10

**Detector module 0.10 %/ m DM-TT-10L**

Same as 801533.10, but with a raised response sensitivity of 0.10 % light opacity/m.

Technical Data

Ambient temperature	-20 °C ... 60 °C
Housing	ABS plastic
Weight	approx. 100 g

801535.10

**Detector module 0.015 %/ m DM-TT-01L**

Same as 801534.10 but, with a raised response sensitivity of 0.015 % light opacity/m.

Technical Data

Ambient temperature	-20 °C ... 60 °C
Housing	ABS plastic
Weight	approx. 100 g

Accessories for Titanus EB

801543.10



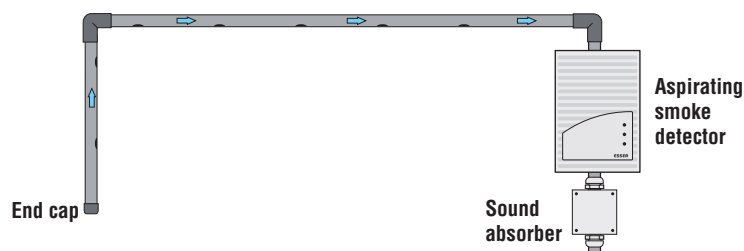
Sound absorber for Titanus EB



Sound absorber for reducing sound levels in Titanus EB aspirating smoke detection systems for sound-sensitive applications. The sound absorber is connected to the tube outlet and reduces the sound level during operation by up to 10 dB(A). Installation either directly at the air release or with 10 cm maximum distance from the air release.

Technical Data

Application temperature	-30 °C ... 60 °C
Material	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 454 g
Dimensions	W: 122 mm H: 194 mm D: 96 mm



Application example

801544.10



Air filter



Air filter for usage in areas with interfering environmental influences e.g. dust.

Technical Data

Application temperature	-30 °C ... 60 °C
Material	ABS plastic
Color	gray, similar to RAL 7035
Dimensions	W: 122 mm H: 194 mm D: 96 mm



Filter cartridges (1 x 60 ppi, 1 x 45 ppi, 1 x 25 ppi)

801604



Replacement air filter pads for 801544



Replacement cartridge for air filters (Part No. 801544), consisting of one fine, medium and coarse filter pad each.



Filter cartridges (1 x 60 ppi, 1 x 45 ppi, 1 x 25 ppi)



1 Set

801600



Microfilter



Special fine filter for use in areas with extreme pollution.

Technical Data

Dimensions	L: 418 mm
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Features

- Filter cartridge filters particles up to a size of 7.5 µm
- Housing resistant to different organic and inorganic chemicals, fuels and hot water

801605



Replacement filter element for 801600



Technical Data

Application temperature	-20 °C ... 60 °C
Material	Polypropylene
Dimensions	Ø: 64 mm L: 254 mm

801540



Device holder for Titanus EB



Device holder for mounting aspirating smoke detection systems to frames or for self-supporting mounting.

Technical Data

Weight	approx. 1.16 kg
Dimensions	L: 92 mm W: 432 mm

801541



Reset PCB for Titanus EB



PCB for resetting the Titanus Pro Sens EB and the Titanus Top Sens EB aspirating smoke detection system via the FACP.

Technical Data

Current consumption	5 to 50 mA
Dimensions	L: 45 mm W: 57 mm



Contact your sales representative for additional details.

801542



Back-flow valve for Titanus EB



Valve for cleaning the tubing system through air purging via compressed air. In systems with air purging, the non-return valve is mounted at the end of the tubing branch and prevents a build-up of dirt particles at the end of the tube.

Technical Data

Color	dark gray
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801547



Front foil Titanus Pro Sens 2 EB



Front foil for indicating alarms when using two detector modules.

801548



Front foil Titanus Top Sens 2 EB



Front foil for indicating staged alarm modes and smoke density levels when using two detector modules.

801549



Diagnostics tool for Titanus EB



Diagnostics tool for Titanus EB aspirating smoke detector systems for reading the measurement data and device configurations as well as for localization of faults.



Diagnostics interface, connecting cable and diagnostic software

Accessories

The pipe accessories of smoke extraction systems made of PVC were completely replaced by superior ABS resin material. ABS shows higher durability and can also be used in difficult ambient conditions. The accessories meet EN 61386-1 requirements.

Technical Data

Ambient temperature

-40 °C ... 70 °C

761520.10



Pipe (ABS), diameter 25 mm



Length = 30 m (each 3 m)



10 pcs

761521.10



90° bend (ABS) for 25 mm pipe



10 pcs

761522.10



90° angle (ABS) for 25 mm pipe



10 pcs

761523.10



45° angle (ABS) for 25 mm pipe



10 Pcs.

761524.10



T-Piece (ABS) for 25 mm pipe



10 pcs

761525.10



Sleeve (ABS) for 25 mm pipe



10 Pcs.

761526.10



End cap (ABS) for 25 mm pipe



10 pcs

761549



Ceiling lead-through adapter (ABS)



Ceiling lead-through adapter (ABS) for suction hose set (Part No. 761542.10).
Almost invisible integration into false ceilings

761542.10



Suctions hose set for 25 mm pipe

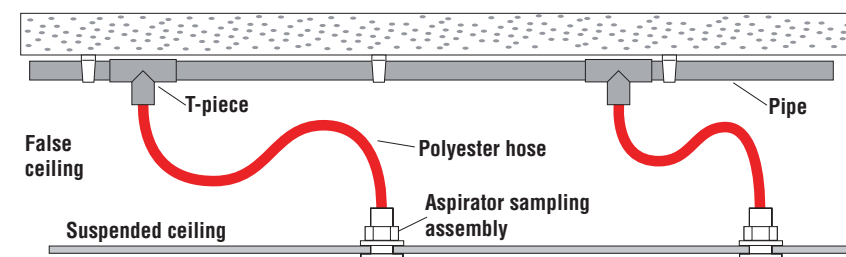


For flexible installation in object surveillance or suspended ceilings.
All components are pre-mounted, but not glued; to enable cut and adaptation on-site.

Technical Data

Dimensions L: 3000 mm

1 x T piece (761524), 3 m corrugated polyester hose, (761543), 1 x ceiling lead-through adapter



Application example: monitoring of room

801607



3-way ball valve (ABS)



For manual disconnection of aspirating smoke detectors from connected piping system during the blow cleaning process with compressed air.

Technical Data

Ambient temperature 0 °C ... 50 °C
Material ABS
Dimensions L: 131 mm

includes three transition screw joints for connection to a 25 mm piping system

801606



Condensate trap for aspirating smoke detectors



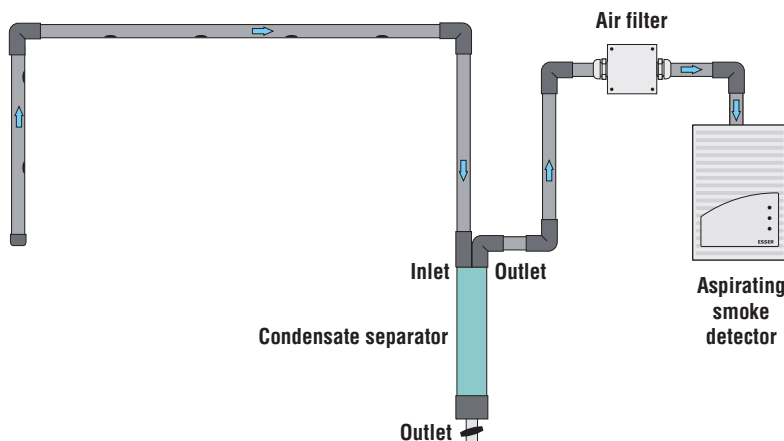
Condensate trap with sintered metal filter for separation and absorption of condensed liquids, used for protecting aspirating smoke detectors including threaded cable connection and mounting bracket.

Technical Data

Ambient temperature	0 °C ... 80 °C
Material	ABS
Color	light gray
Weight	approx. 620 g
Dimensions	W: 68 mm H: 680 mm D: 36 mm

Features

- Plastic housing with manual outlet valve
- Plug connectors for attaching to a piping system



Application example

761535



Adhesive, 0.5 kg can with brush-in-cap



Adhesive for connecting ABS and PVC pipes.

761536



PVC detergent, 1l



Detergent for cleaning ABS and PVC pipes and fittings before gluing.

761537.10



Mounting clip for 25 mm pipe



 100 pcs

761546.10



Pipe cutter for PVC and ABS pipes



Technical Data

Material Aluminum



Tool for clean, fast pipe cuts. For thin-walled pipes also, $\varnothing \leq 63 \text{ mm}$ $\varnothing \leq 2"$.

761547



Labels-sampling points wrap round for VESDA ASD



The labels-sampling points wrap round serves for the marking of the intake points of the PVC/ABS pipe.

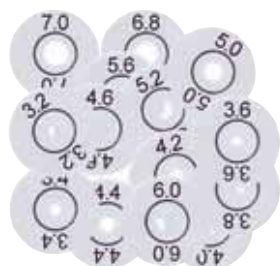



Please note the labels-sampling points wrap round are not use for tapering the intake points.



Roll with 200 labels.

Reducing Film Sheets



 Only 10 mm drill necessary
No annoying whistling
Defined diameter, easily readable on site
Finely graduated for optimal flow balance

 10 pcs

801551



Aspiration reducing film sheet, 2.0 mm

801552



Aspiration reducing film sheet, 2.5 mm

801553



Aspiration reducing film sheet, 3.0 mm

801554



Aspiration reducing film sheet, 3.2 mm

801555



Aspiration reducing film sheet, 3.4 mm

801556



Aspiration reducing film sheet, 3.6 mm

801557



Aspiration reducing film sheet, 3.8 mm

801558



Aspiration reducing film sheet, 4.0 mm

801559



Aspiration reducing film sheet, 4.2 mm

801560



Aspiration reducing film sheet, 4.4 mm

801561



Aspiration reducing film sheet, 4.6 mm

801562



Aspiration reducing film sheet, 5.0 mm

801563



Aspiration reducing film sheet, 5.2 mm

801564



Aspiration reducing film sheet, 5.6 mm

801565



Aspiration reducing film sheet, 6.0 mm

801566



Aspiration reducing film sheet, 6.8 mm

801567



Aspiration reducing film sheet, 7.0 mm

801550

**Banderole for aspiration reducing film for Titanus ASD**

Banderole for securing aspiration reducing film on the tubing system. The red marking is used for the localization of the detector points in the object.



10 pcs

781332



Reset module for hat rail mounting



Module for connecting a third-party detector (with floating relay contact for alarm and fault) on a conventional primary loop. Remote reset function can be controlled via the relay contact on the reset module. Total power consumption depends on the detectors that are connected. The following detector types can be connected: high sensitivity aspirating smoke detection system, flame detectors, Fireray, line type heat and smoke detectors etc.

Technical Data

Operating voltage	10.5 ... 28 V DC
Quiescent current	approx. 0.5 mA (out of detector zone)
Current consumption @ 12 V DC	approx. 1 mA (Relay active: 35 mA)
Current consumption @ 24 V DC	approx. 10 mA (Relay active: 55 mA)
Contact load relay	30 V DC/1 A
Dimensions	W: 37 mm H: 107 mm D: 13 mm (PC-Board)



Version: Module housing for hat rail mounting.



Phase-out-date: 01.01.2011

Phase-out date: 01.01.2011

781332.F0



Reset module for hat rail mounting, France



Same as 781332, but with French labels.

Technical Data

Operating voltage	8 ... 28 V DC
Quiescent current	approx. 0.5 mA
Contact load	30 V CC / 1 A
Dimensions	W: 37 mm H: 107 mm D: 13 mm

781333



Reset module with mounting bracket for Fireray 2000



Reset module as in 781332 including mounting accessories for installation in Fireray 2000 evaluation unit (Part No. 761321).

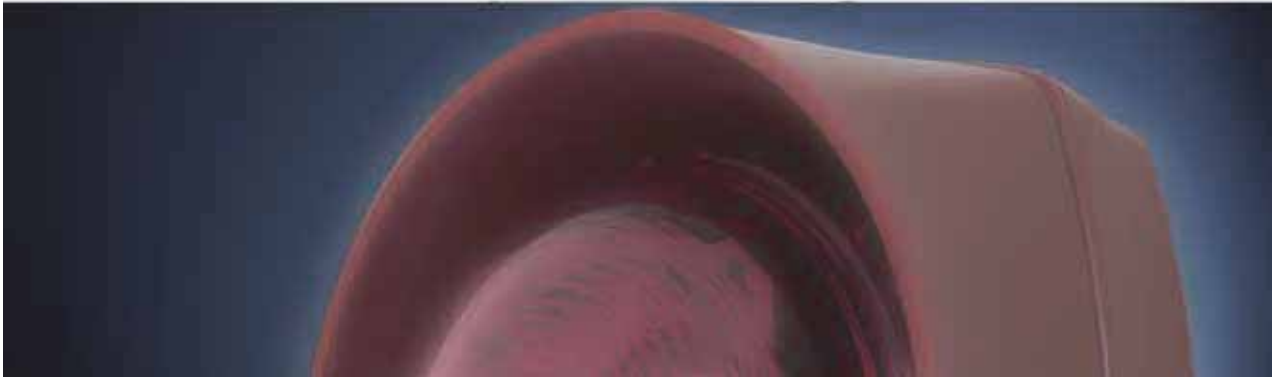


Reset module including bracket and mounting material.

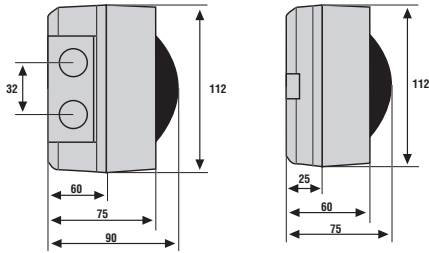


Phase-out-date: 01.01.2011

Phase-out date: 01.01.2011



Alarm Devices	IQ8Alarm Addressable	280-290
	Conventional	291-304
	Remote Indicators	305-307



Features

- Completely bus supplied alarm device
- Powered loop compatible
- 5 different signaling device types - acoustic - optical- acoustic / optical- acoustic / optical- acoustic / optical / speech
- Multilingual speech alarm in 5 different languages
- Alarm signaling, evacuation, and test alarm can each be programmed in different languages
- Up to 32 alarm devices for each powered loop
- Each alarm device has built-in isolator

Acoustic alarm signaling:

- Acoustic pressure up to 99 dB(A) @ 1 m
- Volume programmable in 8 steps via tools 8000
- 20 different signaling tones, including DIN tone
- Speech alarm, 5 pre-programmed alarm texts and other country-typical alarm signals

Optical alarm signaling:

- Flash intensity equivalent to 3W Xenon flash light
- Light intensity: max. 3.87 cd effective, max. 24 cd peak

IQ8Alarm enables IQ8Quad detector application with integrated alarm signaling and other advantages. No matter whether multilingual speech alarm, flexible signal combination or user-friendly programming interfaces, all these features are also available when using IQ8Alarm.

The IQ8Alarm range offers distinct advantages, which will surely convince every user straight away.

Advantages with IQ8Alarm at a glance:

Simple programming enabled by a standardized programming interface for all IQ8Systems (IQ8Quad + IQ8Alarm) alarm signaling devices

-Voltage supply on the loop

-Time-tested, unobtrusive design

Signaling device in compliance with EN 54 with 20 different signaling tones including DIN tone in compliance with DIN 33404-3

On the following pages, you will find more detailed information about IQ8Alarm features.

Technical Data

Operating voltage	8 ... 42 V DC (via powered loop)
Quiescent current @ 19 V DC	approx. 55 µA
Quiescent current @ FACP battery	approx. 300 µA @ 42 V
Load factor	3
Sound level	97 dB(A) +/- 2 dB @ 1 m
Frequency of flash	approx. 1 Hz
Lighting energy	approx. 3 Y
Strength of light	max. 24.4 cd peak/ 4.1 cd effective (red flash)
Ambient temperature	-10 °C ... 50 °C
Air humidity	<95 %
Type of protection	IP30 (IP65 with socket 806201 / 806202)
Housing	ABS plastic
Weight	approx. 300 g
Specification	EN 54-3 acoustic signaling device EN 54-3 acoustic speech signaling device (Q2/2011)
Dimensions	Ø: 112 mm D: 75 mm Ø: 112 mm D: 90 mm (with IP 65 socket)



Please consider:

- Admissible maximum loop length
- Admissible maximum number of single alarm device types
- Maximum number of 127 bus devices for each loop

Systems requirements:






FACP IQ8Control from version V3.04
FACP FlexES Control
esserbus-Plus functionality
Programming software tools 8000 from version V1.09

Attention - an operation with the FACP'S 8000 C/M is not possible!!!









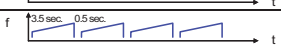
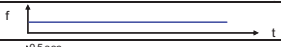
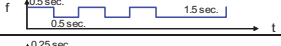




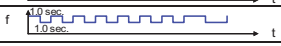



For upgrading 8000 C/M control units, IQ8Lumivox signaling devices must be used. If required, please contact our returns department.

For checking the battery capacity of FACP, the value "quiescent current @ FACP battery" can be added.

IQ8Alarm Addressable

Country code acc. to ISO 3166 -Alpha-2	Language code acc. to ISO 639-1	Evacuation 1	Evacuation 2	Alarm	Test-message	All-Clear
 Germany (DE)	de	Dies ist ein Feueralarm. Bitte verlassen Sie das Gebäude umgehend über die nächsten Fluchtwege. Die Feuerwehr ist alarmiert.	Achtung, Achtung! Dies ist eine Gefahremeldung. Bitte verlassen Sie das Gebäude über die nächsten Ausgänge.	Achtung, im Gebäude ist eine Gefahrensituation gemeldet worden. Bitte bleiben Sie ruhig, und warten Sie auf weitere Anweisungen.	Dies ist eine Testdurchsage.	Die Gefahrensituation ist jetzt behoben. Wir entschuldigen uns für jegliche Unannehmlichkeiten.
 Great Britain (GB)	en	This is a fire alarm. Please leave the building immediately by the nearest available exit.	Attention please. This is an emergency. Please leave the building by the nearest available exit.	An incident has been reported in the building. Please await further instructions.	This is a test message. No action is required.	The emergency is now cancelled. We apologize for any inconvenience.
 France (FR)	fr	Ceci est une alarme incendie, veuillez évacuer immédiatement les locaux par la sortie la plus proche.	Votre attention s'il vous plaît, ceci est une alarme. Veuillez évacuer les locaux par la sortie la plus proche.	Un incident est signalé dans le bâtiment. Merci de garder votre calme et attendez les prochaines instructions.	Ceci est un test.	L'alarme est à présent annulée. Veuillez nous excuser pour le désagrément.
 Spain (ES)	es	Esto es una alarma de incendio. Abandonen por favor el edificio inmediatamente por la salida de evacuación más cercana.	Atención. Esto es una emergencia. Por favor abandonen el edificio por la salida de evacuación más cercana.	Atención, se ha reportado un incidente en el edificio. Aguarden por favor otras instrucciones.	Esto es un mensaje de prueba. No se requiere ninguna acción.	La emergencia ha sido cancelada. Pedimos disculpas por las molestias causadas.
 Italy (IT)	it	Attenzione. Allarme incendio. Abbandonare l'edificio tramite l'uscita di emergenza più vicina.	Attenzione. Allarme in corso. Vi preghiamo di recarvi presso l'uscita di emergenza più vicina.	Attenzione. E' stato rilevato un allarme. Ulteriori disposizioni vi verranno comunicate appena possibile.	Attenzione. E' in corso una prova di allarme. Non è richiesta alcuna azione.	Attenzione. Cessato allarme. La situazione di normalità è stata ripristinata.

Standard speech messages of IQ8Quad detectors and IQ8Alarm

No.	Description	Frequency	Pulse rate
1	School bell	complex	complex
2	FP 1063.1 Telecoms BS 5839 Pt1	Alternating 800 / 970 Hz at 2 Hz	
3	BS 5839 Pt1	Alternating 800 / 970 Hz at 1 Hz	
4	BS 5839 Pt1	Intermittent 970 Hz at 1 Hz 0.5 sec.	
5	BS 5839 Pt1	Intermittent 2850 Hz at 1 Hz 0.5 sec.	
6	BS 5839 Pt1	Intermittent 970 Hz 1/4 sec. ON - 1 sec. OFF	
7	BS 5839 Pt1	Continuous 970 Hz	
8	BS 5839 Pt1	Sweep tone 800 Hz tp 970 Hz at 7 Hz	
9	BS 5839 Pt1	Sweep tone 800 Hz to 970 Hz at 1 Hz	
10	DIN Tone DIN 33404 Part 3	1200 - 500 Hz at 1 Hz	
11	French fire sound	554 Hz / 100 ms + 440 Hz / 400 ms + 10 %	
12	NL - Slow Whoop	500 Hz - 1200 Hz at 3.5 sec. break of 0.5 sec.	
13	US - Horn	Continuous 485 Hz	
14	US - Horn with Temporal Pattern	Intermittent 485 Hz (0.5 sec. ON; 0.5 sec. OFF; 3 times; 1.5 sec. OFF; Repeat)	
15	US - March Time	Alternating 485 Hz (0.25 sec. ON; 0.25 sec. OFF; Repeat)	
16	US - Slow Whoop	Sweep tone 500 Hz to 1200 Hz (4.0 sec. ON; 0.5 sec. OFF; Repeat)	
17	US - Siren	Sweep tone 600 Hz to 1200 Hz (1.0 sec. ON; Repeat)	
18	US - Hi/Lo	Alternating 100 Hz / 800 Hz (0.25 sec. ON; Alternate; 0.25 sec. ON; Alternate; Repeat)	
19	US - NFPA Whoop	Sweep tone 422 Hz to 775 Hz (upwards sweep 0.85 sec.; 3 times; 1 sec. OFF; Repeat)	
20	IMO GA-Signal	Intermittent 800 Hz (1.0 sec. ON; 1.0 sec. OFF; 7 times; 2.0 sec. ON; 2.0 sec. OFF; Repeat)	

IQ8Quad detectors and IQ8Alarm tone table

IQ8Alarm Acoustical Alarm Devices

807205

**IQ8Alarm/So signaler with isolator, white****Approval: VdS**

Addressable, completely bus supplied and short circuit / open circuit resilient alarm signaling device in compliance with EN 54-3 with up to 20 different programmable signaling tones including DIN tone in accordance with DIN 33404 Part 3 for acoustic alarm signaling. The volume can be set to 8 different levels. Its flat design enables optimum adaptation to the environments. It is made of shock and scratch resistant plastic. Optionally, bases Part No. 806201 and 806202 with side cable entry and weatherproof protection can be installed.

Technical Data

Color
Specification

white, similar to RAL 9010
EN 54-3 acoustic signaling device

Accessories

806201 IP65 base, white

807206

**IQ8Alarm/So signaler with isolator, red****Approval: VdS**

Same as 807205, but red.

Technical Data

Color
Specification

red, similar to RAL 3020
EN 54-3 acoustic signaling device

Accessories

806202 IP65 base, red

807322

**IQ8Alarm/Sp signaler with isolator, white****Approval: VdS**

Same as 807205, but with additional speech alarm function.

Technical Data

Color	white, similar to RAL 9010
Specification	EN 54-3 acoustic signaling device EN 54-3 acoustic speech signaling device (Q2/2011)



Programmed with an individual selection of up to 5 national languages

Accessories

806201 IP 65 base, white

807332

**IQ8Alarm/Sp signaler with isolator, red****Approval: VdS**

Same as 807322, but red.

Technical Data

Color	red, similar to RAL 3020
Specification	EN 54-3 acoustic signaling device EN 54-3 acoustic speech signaling device (Q2/2011)



Programmed with an individual selection of up to 5 national languages

Accessories

806202 IP65 base, red

807322.SV98

**IQ8Alarm/Sp signaler with isolator, white, customized version**

Same as 807322, but with individual text and/or sounds. The maximum recording time per device is 169 seconds.



When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix. Cancellations or returns are not possible.



Programmed with an individual selection of up to 5 national languages

Accessories

806201 IP65 base, white

807322.SV99

**IQ8Alarm/Sp signaler with isolator, white, customized version**

Same as 807322, but with individual text and/or sounds. The maximum recording time per device is 169 seconds.



When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix. Costs for the recording of customer specific texts and/or tones can be obtained on request. Cancellations or returns are not possible.



Programmed according to customer specifications.

Accessories

806201 IP65 base, white



807332.SV98

**IQ8Alarm/Sp signaler with isolator, red, composed version**

Same as 807322.SV98, but with an individual combination of up to 5 languages, see special order form in the appendix.



When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix. Cancellations or returns are not possible.

Accessories

806202 IP65 base, red



807332.SV99

**IQ8Alarm/Sp signaler with isolator, red, customized version**

Same as 807322.SV99, but with individual text and/or sounds. The maximum recording time per device is 169 seconds.



When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix. Costs for the recording of customer specific texts and/or tones can be obtained on request. Cancellations or returns are not possible.

Accessories

806202 IP65 base, red



IQ8Alarm Combined Alarm and Speech Signaling Devices

807224



IQ8Alarm/FSo signaler with isolator, red



Approval: VdS

Addressable, completely bus supplied and short circuit / open circuit resilient alarm signaling device in compliance with EN 54-3 with up to 20 different programmable signaling tones including DIN tone in accordance with DIN 33404 Part 3 for acoustic and optical alarm signaling. The volume can be set to 8 different levels. Its flat design enables optimum adaptation to the environments. It is made of shock and scratch resistant plastic. Optionally, bases (Part no. 806201 white or 806202 red) with side cable entry and weather-proof protection (IP65) can be installed.

Technical Data

Strength of light	max. 24.4 cd peak/ 4.1 cd effective (red flash)
Housing	ABS plastic
Color	red, similar to RAL 3020
Specification	EN 54-3 acoustic signaling device

Accessories

806202 IP65 base, red

807372



IQ8Alarm/FSp signaler with isolator, red



Approval: VdS

Same as in 807224, but with programmed speech alarm for powered loop connection.

Technical Data

Strength of light	max. 24.4 cd peak/ 4.1 cd effective (red flash)
Color	red, similar to RAL 3020
Specification	EN 54-3 acoustic signaling device EN 54-3 acoustic speech signaling device (Q2/2011)



Programmed with 5 languages: German, English, French, Spanish and Italian.

Accessories

806202 IP65 base, red

807372.BR

**IQ8Alarm/FSp signaler with isolator, red, Brazil**

Same as 807372, but Brazil version.

**Technical Data**

Color red, similar to RAL 3020



Programmed with 5 languages: Portuguese (Brazil), English, German, Spanish and French.

Accessories

806202 IP65 base, red

807372.NO

**IQ8Alarm/FSp signaler with isolator, red, Nordic**

Same as 807372, but Nordic version.

**Approval: VdS**

Same as 807372, but with an individual combination of up to 5 languages, see special order form in the appendix.

Technical Data

Color red, similar to RAL 3020



When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix. Cancellations or returns are not possible.



Programmed with 5 languages in accordance with composed combination.

Accessories

806202 IP65 base, red

807372.SV99



IQ8Alarm/FSp signaler with isolator, red, customized version

**Approval: VdS**

Same as 807372, but with individual texts and/or sounds. The maximum recording time per device is 169 seconds.

Technical Data

Color red, similar to RAL 3020



When ordering, please note the "Ordering information for IQ8Quad and IQ8Alarm" and fill in "Order form for individual combination of languages" printed in the appendix.

Costs for the recording of customer specific texts and/or tones can be obtained on request. Cancellations or returns are not possible.



Programmed according to customer specifications.

Accessories

806202 IP65 base, red

IQ8Alarm Optical Alarm Signaling Devices

807212


IQ8Alarm/F signaler with isolator, amber flash

Approval: VdS

Addressable, completely bus supplied and short circuit / open circuit resilient alarm signaling device for optical alarm signaling. Its flat and unobtrusive design enables optimum adaptation to the environments.

Technical Data

Sound level	97 dB(A) +/- 2 dB @ 1 m
Strength of light	max. 24 cd peak/ 3.87 cd effective
Color	base: white, similar RAL 9010 cap: amber



806201 IP65 base, white

807213


IQ8Alarm/F signaler with isolator, blue/green/white flash

Approval: VdS

Same as 807212, but transparent, blue and green.

Technical Data

Sound level	97 dB(A) +/- 2 dB @ 1 m
Strength of light	transparent: max. 17.39 cd peak/ 2.16 cd effective blue: max 5,06 cd peak/0,62 cd effective green: max. 2,72 cd peak/0,33 cd effective
Color	base: white, similar RAL 9010 cap: blue, green, transparent



806201 IP65 base, white

807214



IQ8Alarm/F signaler with isolator, red flash



Approval: VdS

Same as 807212, but red.

Technical Data

Sound level	97 dB(A) +/- 2 dB @ 1 m
Strength of light	max. 20.91 cd peak/3.41cd effective
Color	cap: red
	cap: red



806202 IP65 base, red

Accessories IQ8Alarm

806201

**IP65 base for IQ8Alarm, white**

White base, for IQ8Alarm device with protection type IP65 and surface mount cable entry.

Technical Data

Type of protection
Color

IP65
white, similar to RAL 9010

806202

**IP65 base for IQ8Alarm, red**

Red base, for IQ8Alarm device with protection type IP65 and surface mount cable entry.

Technical Data

Type of protection
Color

IP65
red, similar to RAL 3020

767800

**Mounting bracket for lintel installation**

Mounting bracket for all bases/detectors of the IQ8Quad group, series 9x00, RAS 2103 for IQ8Alarm including all alarm devices.

The distance between the mounting holes is 6 cm and the diameter is about 5 mm.

Technical Data

Material
Color

aluminum
white, similar to RAL 9010



Mounting bracket and installation material

Audible Alarm Devices

766225



Shallow base sounder, red



Features

- Flat design
- Suitable for 12 and 24 V DC operating voltage
- Low amount of alarm current
- Volume at the unit adjustable

Approval: VdS

The alarm signaling device offers a selection of 32 acoustic signals including the DIN German standard as well as additional country-specific acoustic signals.

The configuration is carried out via a five-pin DIL-switch. Up to two different acoustic signals can be activated.

Technical Data

Operating voltage	9 ... 28 V DC
Alarm current @ 12 V DC	approx. 7 mA
Alarm current @ 24 V DC	from 5 mA / max. 32 mA
Starting current	approx. 32 mA
Sound level @ 24 V DC	103 dB(A)
Sound level @ 12 V DC	(at DIN-Tone)
Ambient temperature	-25 °C ... 70 °C
Type of protection	IP54 and IP65 with 766237
Housing	ABS V0
Color	red, similar to RAL 3001
Dimensions	Ø: 93 mm H: 63 mm Ø: 93 mm H: 91 mm (incl. base 766237)



Not suitable for using outside or in humid environments.

Therefore, please use the optional bases with side cable entry (Part No. 766237).

Accessories

766237 IP65 base, red

766226



Shallow base sounder, white



Features

- Flat design
- Suitable for 12 and 24 V DC operating voltage
- Low amount of alarm current
- Volume at the unit adjustable

Approval: VdS

The alarm signaling device offers a selection of 32 acoustic signals including the DIN German standard as well as additional country-specific acoustic signals.

The configuration is carried out via a five-pin DIL-switch. Up to two different acoustic signals can be activated.

Technical Data

Operating voltage	9 ... 28 V DC
Alarm current @ 12 V DC	approx. 3 mA
Alarm current @ 24 V DC	approx. 5 mA
Starting current	approx. 32 mA
Sound level @ 24 V DC	103 dB(A)
Sound level @ 12 V DC	(at DIN-Tone)
Ambient temperature	-25 °C ... 70 °C
Type of protection	IP54 and IP65 with 766238
Housing	ABS V0
Color	white, similar to RAL 9010
Dimensions	Ø: 93 mm H: 63 mm Ø: 93 mm H: 91 mm (incl. base)



Not suitable for using outside or in humid environments.

Please therefore use the optional bases with side cable entry (Part No. 766238).

Accessories

766238 IP65 base, white

766237

**Base with side cable entry, red**

For alarm sounder (Part No. 766225), optical signaling devices (Part No. 766410) and combined alarm devices (Part No. 766240, 766420, 766422).

Technical Data

Type of protection	IP 65
Color	red, similar to RAL 3001
Dimensions	Ø: 94 mm H: 47 mm



Rubber seal and two screws

766238

**Base with side cable entry, white**

For alarm sounder (Part No. 766226), optical signaling device (Part No. 766411, 766412, 766413, 766414) and combined alarm devices (Part No. 766421, 766423).

Technical Data

Type of protection	IP 65
Color	white, similar to RAL 9003
Dimensions	Ø: 94 mm H: 47 mm



Rubber seal and two screws

766239

**Sounder, red**

As per DIN 33404 - 3 and EN 457. 32 programmable signaling tones, can be selected via DIL-switch (two tones each), volume control via potentiometer.

Technical Data

Operating voltage	18 ... 28 V DC
Alarm current @ 24 V DC	240 mA with DIN-tone
Sound level @ 24 V DC	112 dB(A)
Ambient temperature	-10 °C ... 55 °C
Storage temperature	-25 °C ... 70 °C
Type of protection	IP21C
Housing	ABS
Color	red, similar to RAL 3001
Dimensions	W: 108 mm H: 91 mm

766261

**Signal base, white****Approval: G 206022**

Alarm sounder as per DIN 33404, - 3 and EN 457 to be mounted below detector base with relay output for automatic detector series 9x00 and for IQ8Quad; with 28 programmable signaling tones, can be selected via five-pole DIL switch (two tones out of 28 can be programmed), volume control via potentiometer.

Technical Data

Operating voltage	18 ... 28 V DC
Current consumption @ 12 V DC	approx. 5 mA (10 mA for DIN tone)
Current consumption @ 24 V DC	approx. 16 mA (bei DIN-Ton)
Starting current	approx. 30 mA
Sound level @ 12 V DC	max. 102 dB(A)/m; 87 dB(A) for DIN tone
Ambient temperature	-40 °C ... 80 °C
Storage temperature	-45 °C ... 85 °C
Type of protection	IP 54
Housing	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 150 g
Dimensions	Ø: 111 mm H: 26 mm

Accessories

766262 Cover plate for signal base

766262

**Cover for signal base 766261**

For covering the connection when operated without detector.

Technical Data

Color white, similar to RAL 9010



Cover plate and one screw

766247

**Sounder D/U2-50 P2 12 V**

Piezoelectric alarm device with integrated electronics, signaling tone is pulsed.

Technical Data

Operating voltage	6 ... 16 V DC
Current consumption	approx. 17 mA
Sound level	95dB(A) / 1 m
Ambient temperature	-20 °C ... 65 °C
Type of protection	IP20
Housing	ABS
Color	white, similar to RAL 9010
Weight	approx. 135 g
Dimensions	Ø: 93 mm H: 40 mm

Phase-out date: 25.04.2013

Optical Alarm Devices

766303

**Flashing light 12 V DC, amber****Technical Data**

Operating voltage	12 V DC
Alarm current	350 mA
Frequency of flash	approx. 1 Hz
Lighting energy	approx. 4 J
Ambient temperature	-20 °C ... 50 °C
Storage temperature	-25 °C ... 55 °C
Type of protection	IP54
Housing	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 360 g
Dimensions	Ø: 108 mm H: 133 mm



Wall bracket included

766304

**Flashing light 24 V DC, amber**

Same as 766303, but 24 V DC operating voltage.

Technical Data

Operating voltage	24 V DC
Alarm current	250 mA
Frequency of flash	approx. 1 Hz
Lighting energy	approx. 4 J
Ambient temperature	-20 °C ... 50 °C
Storage temperature	-25 °C ... 55 °C
Type of protection	IP54
Housing	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 360 g
Dimensions	Ø: 108 mm H: 133 mm



Wall bracket included

766305

**Flashing light 12 V DC, red**

Same as 766303, but red.

Technical Data

Operating voltage	12 V DC
Alarm current	350 mA
Frequency of flash	approx. 1 Hz
Lighting energy	approx. 4 J
Ambient temperature	-20 °C ... 50 °C
Storage temperature	-25 °C ... 55 °C
Type of protection	IP54
Housing	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 360 g
Dimensions	Ø: 108 mm H: 133 mm

766306

**Flashing light 24 V DC, red**

Same as 766303, but 24 V DC operating voltage and red cap.

Technical Data

Operating voltage	24 V DC
Alarm current	250 mA
Frequency of flash	approx. 1 Hz
Lighting energy	approx. 4 J
Ambient temperature	-20 °C ... 50 °C
Storage temperature	-25 °C ... 55 °C
Type of protection	IP54
Housing	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 360 g
Dimensions	Ø: 108 mm H: 133 mm

766307

**Flashing light 12 V DC, green**

Same as 766303, but green.

Technical Data

Operating voltage	12 V DC
Alarm current	350 mA
Frequency of flash	approx. 1 Hz
Lighting energy	approx. 4 J
Ambient temperature	-20 °C ... 50 °C
Storage temperature	-25 °C ... 55 °C
Type of protection	IP54
Housing	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 360 g
Dimensions	Ø: 108 mm H: 133 mm

766308

**Flashing light 24 V DC, green**

Same as 766303, but 24 V DC operating voltage and green cap.

Technical Data

Operating voltage	24 V DC
Alarm current	250 mA
Frequency of flash	approx. 1 Hz
Lighting energy	approx. 4 J
Ambient temperature	-20 °C ... 50 °C
Storage temperature	-25 °C ... 55 °C
Type of protection	IP54
Housing	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 360 g
Dimensions	Ø: 108 mm H: 133 mm

766410

**Optical alarm signaling device, red****Approval: VdS**

Flitslicht conventioneel, rood

Technical Data

Operating voltage	9 ... 60 V DC
Current consumption @ 24 V DC	approx. 88 mA
Frequency of flash	approx. 1 Hz
Strength of light	5 Cd
Application temperature	-25 °C ... 70 °C
Air humidity	< 93 % (non-condensing)
Type of protection	IP65 with 766237
Material	base ABS cup PC
Weight	approx. 150 g
Dimensions	Ø: 94 mm H: 67 mm (incl. base)



Not suitable for using outside or in humid environments.

Please use the optional bases with side cable entry (Part No. 766237).

Accessories

766237 IP65 base red

767800 Mounting bracket

766411

**Optical alarm signaling device, amber****Approval: VdS**

Same as 766410, but amber color.

Technical Data

Operating voltage	9 ... 60 V DC
Current consumption @ 24 V DC	approx. 88 mA
Frequency of flash	approx. 1 Hz
Strength of light	10 Cd
Application temperature	-25 °C ... 70 °C
Air humidity	< 93 % (non-condensing)
Type of protection	IP21C
Material	base ABS cup PC
Weight	approx. 150 g
Dimensions	Ø: 94 mm H: 67 mm (incl. base)



Niet geschikt voor gebruik buiten of in vochtige omgevingen.
Gebruik hiervoor de opbouwadapter type 766238.

Accessories

766238 IP65 base white

767800 Mounting bracket

766412

**Optical alarm signaling device, green****Approval: VdS**

Same as 766410, but green color.

Technical Data

Operating voltage	9 ... 60 V DC
Current consumption @ 24 V DC	approx. 88 mA
Frequency of flash	approx. 1 Hz
Strength of light	10 Cd
Application temperature	-25 °C ... 70 °C
Air humidity	< 93 % (non-condensing)
Type of protection	IP21C
Material	base ABS cup PC
Weight	approx. 150 g
Dimensions	Ø: 94 mm H: 67 mm (incl. base)



Niet geschikt voor gebruik buiten of in vochtige omgevingen.
Gebruik hiervoor de opbouwadapter type 766238.

Accessories

766238 IP65 base white

767800 Mounting bracket

766413

**Optical alarm signaling device, blue**

Same as 766410, but blue color and without VdS-Approval.

Technical Data

Operating voltage	9 ... 60 V DC
Current consumption @ 24 V DC	approx. 88 mA
Frequency of flash	approx. 1 Hz
Strength of light	7 Cd
Application temperature	-25 °C ... 70 °C
Air humidity	< 93 % (non-condensing)
Type of protection	IP21C
Material	base ABS cup PC
Weight	approx. 150 g
Dimensions	Ø: 94 mm H: 67 mm (incl. base)



Niet geschikt voor gebruik buiten of in vochtige omgevingen.
Gebruik hiervoor de opbouwadapter type 766238.

Accessories

766238 IP65 base white

767800 Mounting bracket

766414



Optical alarm signaling device, transparent

**Approval: VdS**

Same as 766410, but transparent color.

Technical Data

Operating voltage	9 ... 60 V DC
Current consumption @ 24 V DC	approx. 88 mA
Frequency of flash	approx. 1 Hz
Strength of light	22 Cd
Application temperature	-25 °C ... 70 °C
Air humidity	< 93 % (non-condensing)
Type of protection	IP21C
Material	base ABS cup PC
Weight	approx. 150 g
Dimensions	Ø: 94 mm H: 67 mm (incl. base)



Niet geschikt voor gebruik buiten of in vochtige omgevingen.
Gebruik hiervoor de opbouwadapter type 766238.

Accessories

766238 IP65 base white

767800 Mounting bracket

Combined Alarm Devices

766420



Optical alarm signaling device EN54-23, red, wall mounting

NEW

Features

- EN54-23 compliant
- Up to 7.5 m room width
- Can be altered to 5 m room width
- LED technology for low energy consumption
- Variable flashing frequency 1 Hz/0.5 Hz

Optical alarm signaling device EN54-23 for wall mounting. The flash color, white or red, and the flashing frequency, 1 Hz or 0.5 Hz, can be set using the switches. The alarm device is suitable for square rooms of up to 7.5 m in width. For smaller spaces, the device can be switched to a 5 m width to save energy.

Technical Data

Operating voltage	9 ... 60 V DC
Alarm current	12 ... 25 mA
Frequency of flash	approx. 1 Hz/0,5 Hz
Flash color	white/red
Ambient temperature	-25 °C ... 70 °C
Type of protection	IP21C, IP65 with 766237
Housing	ABS, V0
Installation	Wall
Category	W-2,4-7,5
Mounting height	2.4 m
Room width	7.5 m/5 m
Color	red, similar to RAL 3001
Weight	approx. 0.1 kg
Dimensions	Ø: 93 mm H: 38 mm Ø: 93 mm H: 66 mm (incl. IP base)



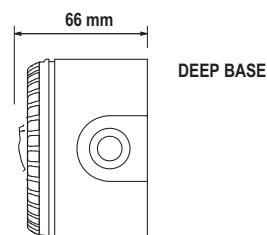
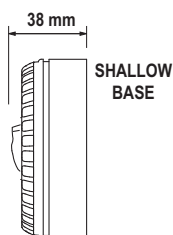
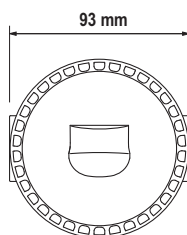
Not suitable for use outdoors or damp environments. For these, use the optional deep base (Part. No. 766237 or 766238).



Available Q3/2013

Accessories

766237 IP65 base, red



766421

**Optical alarm signaling device EN54-23, white, wall mounting****NEW****Features**

- EN54-23 compliant
- Up to 7.5 m room width
- Can be altered to 5 m room width
- LED technology for low energy consumption
- Variable flashing frequency 1 Hz/0.5 Hz

Optical alarm signaling device EN54-23 for wall mounting. The flash color, white or red, and the flashing frequency, 1 Hz or 0.5 Hz, can be set using the switches. The alarm device is suitable for square rooms of up to 7.5 m in width. For smaller spaces, the device can be switched to a 5 m width to save energy.

Technical Data

Operating voltage	9 ... 60 V DC
Alarm current	12 ... 25 mA
Frequency of flash	approx. 1 Hz/0.5 Hz
Flash color	white/red
Ambient temperature	-25 °C ... 70 °C
Type of protection	IP21C, IP65 with 766238
Housing	ABS, V0
Installation	Wall
Category	W-2,4-7,5
Mounting height	2.4 m
Room width	7.5 m/5 m
Color	white, similar to RAL 9010
Weight	approx. 0.1 kg
Dimensions	Ø: 93 mm H: 38 mm Ø: 93 mm H: 66 mm (incl. IP base)



Not suitable for use outdoors or damp environments. For these, use the optional deep base (Part. No. 766237 or 766238).



Available Q3/2013

Accessories

766238 IP65 base, white

766422

**Optical alarm signaling device EN54-23, red, ceiling mounting****NEW****Features**

- EN54-23 compliant
- Up to 7.5 m room diameter
- Can be altered to 5 m room diameter
- LED technology for low energy consumption
- Variable flashing frequency 1 Hz/0.5 Hz

Optical alarm signaling device compliant with EN54-23 for ceiling mounting. The flash color, white or red, and the flashing frequency, 1 Hz or 0.5 Hz, can be set using the switches. The alarm device is suitable for cylindrical areas of up to 7.5 m in diameter. For smaller spaces, the device can be switched to a 5 m diameter to save energy.

Technical Data

Operating voltage	9 ... 60 V DC
Alarm current	12 ... 25 mA
Frequency of flash	approx. 1 Hz/0.5 Hz
Flash color	white/red
Ambient temperature	-25 °C ... 70 °C
Type of protection	IP21C, IP65 with 766237
Housing	ABS, V0
Installation	Ceiling
Category	C-3-7,5
Mounting height	3 m
Room diameter	7.5 m / 5 m
Color	red, similar to RAL 3001
Weight	approx. 0.1 kg
Dimensions	Ø: 93 mm H: 37 mm Ø: 93 mm H: 65 mm (incl. IP base)



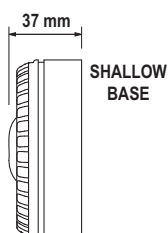
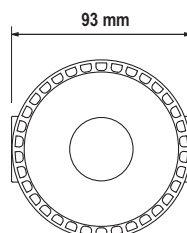
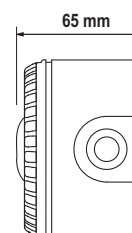
Not suitable for use outdoors or damp environments. For these, use the optional deep base (Part. No. 766237 or 766238).



Available Q3/2013

Accessories

766237 IP65 base, red

SHALLOW
BASE

DEEP BASE

766423

**Optical alarm signaling device EN54-23, white, ceiling mounting****NEW****Features**

- EN54-23 compliant
- Up to 7.5 m room diameter
- Can be altered to 5 m room diameter
- LED technology for low energy consumption
- Variable flashing frequency 1 Hz/0.5 Hz

Optical alarm signaling device compliant with EN54-23 for ceiling mounting. The flash color, white or red, and the flashing frequency, 1 Hz or 0.5 Hz, can be set using the switches. The alarm device is suitable for cylindrical areas of up to 7.5 m in diameter. For smaller spaces, the device can be switched to a 5 m diameter to save energy.

Technical Data

Operating voltage	9 ... 60 V DC
Alarm current	12 ... 25 mA
Frequency of flash	approx. 1 Hz/0.5 Hz
Flash color	white/red
Ambient temperature	-25 °C ... 70 °C
Type of protection	IP21C, IP65 with 766238
Housing	ABS, V0
Installation	Ceiling
Category	C-3-7,5
Mounting height	3 m
Room diameter	7,5 m/5 m
Color	white, similar to RAL 9010
Weight	approx. 0.1 kg
Dimensions	Ø: 93 mm H: 37 mm Ø: 93 mm H: 65 mm (incl. IP base)



Not suitable for use outdoors or damp environments. For these, use the optional deep base (Part. No. 766237 or 766238).



Available Q3/2013

Accessories

766238 IP65 base, white

766240

**Combined alarm device 12 V DC, red**

Alarm device as per DIN 33404-3 and EN 457.

For indoor and outdoor installation (with Part No. 766237). Alarm sounder and flashing light may be activated separately. Floating tone going by 1 HZ beat between 1200 and 500 HZ (DIN tone).

Technical Data

Operating voltage	9 ... 15 V DC
Alarm current @ 12 V DC	approx. 100 mA (flash lamp)
Sound level @ 12 V DC	94
Frequency of flash	approx. 1 Hz
Lighting energy	0.7 J
Strength of light	10 cd
Ambient temperature	-10 °C ... 55 °C
Storage temperature	-15 °C ... 60 °C
Air humidity	< 93 % (non-condensing)
Type of protection	IP 54, IP 65 (with 766237 without clips)
Material	ABS plastic (UV-stabilized)
Color	red, similar to RAL 3001
Weight	approx. 350 g
Dimensions	Ø: 93 mm H: 92 mm Ø: 93 mm H: 120 mm (incl. base)



Also available with cable entry at the side, possible with Part No. 766237 (see accessories).

Accessories

766237 IP65 base red

767800 Mounting bracket

766240.10

**Combined alarm device, 24 V DC, red, Asserta type****NEW**

Asserta sounder beacons is designed to cope with harsh environments requiring protection to IP66 and is compliant to EN54-3. 32 different alarm tones can be selected. Alarm sounder and flashing light may be activated separately.

Technical Data

Alarm current @ 24 V DC	Flashing lights about 230 mA, sirens about 40 mA)
Lighting energy	2.5 J
Type of protection	IP66
Material	ABS plastic (UV-stabilized)
Color	red, similar to RAL 3001

Flush mounted Sounder

Features

- 28 signal sounds incl. DIN sound selectable via DIL-switch
- Low power consumption (DIN SOUND 9mA @ 12VDC/15mA @ 24VDC)
- Adjustable volume up to max. 107dB(A), DIN sound 97dB(A)

The electronic multifunctional sounder has been specially adjusted to the commercially available flush mount switch and socket design developed by Merten.

Optionally the multifunctional flush mount sounder can be obtained in the Jung, Gira as well as the Busch-Jäger design.

When ordering Part No. 766265 the Merten design is supplied as standard; if you wish to order another design, this has to be notified. There are no changes in the price.

Technical Data

Operating voltage	10 ... 28 V DC
Current consumption	5 - 35 mA, depending on the sound frequency
Sound level	83-107 dB / A, depending on sound frequency
Ambient temperature	-10 °C ... 55 °C
Type of protection	IP21C
Housing	ABS
Color	white



Please note that an EOL-O has to be installed into the last alarm device socket for standards-compliant power monitoring. For installing the EOL-O into the alarm device socket, an additional mounting extension ring is required (Part No. 766269). The sounder is VdS-approved in the Feller design only.



Pre-assembled flush mounted siren comprises:

- in flush-mounted box 60 x 60mm
- Cover design
- Installation manual

Accessories

766269 Installation extension ring for mounting EOL-O

808624 Finishing element EOL-O



766265



Sounder flush mount, white, design Feller



Features

- 28 signal sounds incl. DIN sound selectable via DIL-switch
- Low power consumption (DIN SOUND 9 mA @ 12VDC/15 mA @ 24 V DC)
- Adjustable volume up to max. 107dB(A), DIN sound 93 dB(A)

Approval: G 210090

Sounder in Feller design.

Technical Data

Current consumption	5 - 35 mA, according to sound frequency
Sound level	83 - 107dB/A, according to sound frequency
Housing	ABS
Color	white



Please note that an EOL-O has to be installed into the last alarm device socket for standards-compliant power monitoring. For installing the EOL-O into the alarm device socket, an additional mounting extension ring is required (Part No. 766269). The sounder is VdS-approved in the Feller design only.



Pre-assembled flush mounted siren comprises:

- in flush-mounted box 60 x 60mm
- Cover design
- Installation manual

Accessories

766269 Installation extension ring for mounting EOL-O

808624 Finishing element EOL-O

766263

**Sounder flush mount, white, design Jung LS990**

Sounder in Jung design type LS990.

Technical Data

Current consumption	5 - 35 mA, according to sound frequency
Sound level	83 - 107dB/A, according to sound frequency
Housing	ABS
Color	white



Please note that an EOL-O has to be installed into the last alarm device socket for standards-compliant power monitoring. To install the EOL-O into the alarm device socket, an additional mounting extension ring is required (Part No. 766269).
The sounder is VdS-approved in the Feller design only.



Pre-assembled flush mounted siren comprises:
- in flush-mounted box 60 x 60mm
- Cover design
- Installation manual

Accessories

766269 Installation extension ring for mounting EOL-O
808624 Finishing element EOL-O

Features

- 28 signal sounds incl. DIN sound selectable via DIL-switch
- Low power consumption (DIN SOUND 9 mA @ 12VDC/15 mA @ 24 V DC)
- Adjustable volume up to max. 107dB(A), DIN sound 93 dB(A)

766264

**Sounder flush mount, white, design Jung AS500**

Sounder in Jung design type AS500.

Technical Data

Current consumption	5 - 35 mA, according to sound frequency
Sound level	83 - 107dB/A, according to sound frequency
Housing	ABS
Color	white



Please note that an EOL-O has to be installed into the last alarm device socket for standards-compliant power monitoring. To install the EOL-O into the alarm device socket, an additional mounting extension ring is required (Part No. 766269).
The sounder is VdS-approved in the Feller design only.



Pre-assembled flush mounted siren comprises:
- in flush-mounted box 60 x 60mm
- Cover design
- Installation manual

Accessories

766269 Installation extension ring for mounting EOL-O
808624 Finishing element EOL-O

Features

- 28 signal sounds incl. DIN sound selectable via DIL-switch
- Low power consumption (DIN SOUND 9 mA @ 12VDC/15 mA @ 24 V DC)
- Adjustable volume up to max. 107dB(A), DIN sound 93 dB(A)

766266

**Sounder flush mount, white, design Gira system 55**

Sounder in Gira design.

Technical Data

Current consumption	5 - 35 mA, according to sound frequency
Sound level	83 - 107dB/A, according to sound frequency
Housing	ABS
Color	white



Please note that an EOL-O has to be installed into the last alarm device socket for standards-compliant power monitoring. To install the EOL-O into the alarm device socket, an additional mounting extension ring is required (Part No. 766269).
The sounder is VdS-approved in the Feller design only.



Pre-assembled flush mounted siren comprises:
- in flush-mounted box 60 x 60mm
- Cover design
- Installation manual

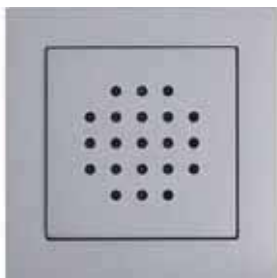
Accessories

766269 Installation extension ring for mounting EOL-O
808624 Finishing element EOL-O

Features

- 28 signal sounds incl. DIN sound selectable via DIL-switch
- Low power consumption (DIN SOUND 9 mA @ 12VDC/15 mA @ 24 V DC)
- Adjustable volume up to max. 107dB(A), DIN sound 93 dB(A)

766267

**Sounder flush mount, aluminum, design Gira system 55**

As Art. No. 766266, but in Alu color.

Technical Data

Current consumption	5 - 35 mA, according to sound frequency
Sound level	83 - 107dB/A, according to sound frequency
Housing	ABS
Color	white



Please note that an EOL-O has to be installed into the last alarm device socket for standards-compliant power monitoring. To install the EOL-O into the alarm device socket, an additional mounting extension ring is required (Part No. 766269).
The sounder is VdS-approved in the Feller design only.



Pre-assembled flush mounted siren comprises:
- in flush-mounted box 60 x 60mm
- Cover design
- Installation manual

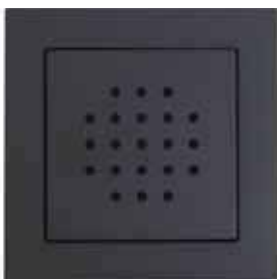
Accessories

766269 Installation extension ring for mounting EOL-O
808624 Finishing element EOL-O

Features

- 28 signal sounds incl. DIN sound selectable via DIL-switch
- Low power consumption (DIN SOUND 9 mA @ 12VDC/15 mA @ 24 V DC)
- Adjustable volume up to max. 107dB(A), DIN sound 93 dB(A)

766268

**Sounder flush mount, anthracite, design Gira System 55**

As Art. No. 766266, but in Anthracite color.

Technical Data

Current consumption	5 - 35 mA, according to sound frequency
Sound level	83 - 107dB/A, according to sound frequency
Housing	ABS
Color	white



Please note that an EOL-O has to be installed into the last alarm device socket for standards-compliant power monitoring. To install the EOL-O into the alarm device socket, an additional mounting extension ring is required (Part No. 766269).
The sounder is VdS-approved in the Feller design only.



Pre-assembled flush mounted siren comprises:
- in flush-mounted box 60 x 60mm
- Cover design
- Installation manual

Accessories

766269 Installation extension ring for mounting EOL-O
808624 Finishing element EOL-O

Features

- 28 signal sounds incl. DIN sound selectable via DIL-switch
- Low power consumption (DIN SOUND 9 mA @ 12VDC/15 mA @ 24 V DC)
- Adjustable volume up to max. 107dB(A), DIN sound 93 dB(A)

Flush mounted Sounder - Accessories

766269

**Extension mounting loop for EOL-O**

Mounting extension for the use of EOL-O-final element in the flush box. For standards-compliant monitoring, an EOL-O termination element must be installed in the last signal generator of each control output.

Technical Data

Dimensions	Ø: 60 mm H: 12 mm
------------	-------------------

Explosion-Proof

045040



Ex signaling device DS10, 12 V DC



Features

- 9 tone sequences can be programmed:
- Continuous tone
- Alternating tone
- Intermittent tone
- Siren
- Fire alarm (different national regulations taken into account)

Approval: VdS (FDT)

The sound generator is especially suitable for hazardous industrial areas (zone 2 and 22). The robust aluminum die-cast housing is resistant to chemicals and environmental factors. The DS10 complies with the technical requirements of DIN 33404 - 3 "hazard signals for workplaces".

Technical Data

Explosion protection	II 3G Ex nA II T5 II 3D Ex tD A22 IP67 T135°C
Operating voltage	11 ... 14 V DC
Current consumption @ 12 V DC	approx. 300 mA
Current consumption @ 24 V DC	approx. 420 mA
Sound level	110 dB(A) ± 3 dB
Ambient temperature	-25 °C ... 55 °C
Storage temperature	-40 °C ... 70 °C
Air humidity	≤ 90%
Type of protection	IP66/IP67
Material	aluminum die cast
Color	red, similar to RAL 3000
Weight	approx. 1.95 kg
Specification	EN 54-3
Dimensions	W: 150 mm H: 150 mm D: 143 mm



According to the conformity declaration, the alarm devices can be used in zones 2 and 22.

766253



Ex sounder, 12 V DC



Features

- 32 tone sequences can be programmed:
- Quartz controlled sound synchronization
- ATEX approved
- LM6 aluminum die-cast housing
- Self-extinguishing aluminum cone, similar to UL 94 V0

KEMA 99 ATEX 7906 design certificate

The ex sounder is especially suitable for application in hazardous areas at industrial workplaces category 2G or 3G (formerly zones 1 and 2) and complies with the technical requirements of DIN 33404 - 3. The robust aluminum die-cast housing is resistant to chemicals and environmental factors.

Technical Data

EC-type examination certificate	KEMA 99ATEX 7906
Explosion protection	II 2G Ex de IIC T4
Operating voltage	12 V DC
Current consumption	typ. 195 mA;
Sound level	110 dB(A) ± 3 dB @ 1 m (depending on signaling type)
Ambient temperature	-50 °C ... 55 °C
Storage temperature	-50 °C ... 70 °C
Air humidity	≤ 90 %
Type of protection	IP67
Material	aluminum die cast LM6
Color	red, similar to RAL 3000
Weight	approx. 3.16 kg
Dimensions	Ø: 181 mm L: 263 mm

Features

- Shapely, light-weight and compact design
- Prism with all around 180° visible LEDs with a wide area of illumination and high on/off contrast

These indicators are used primarily for signaling alarms of smoke detectors installed above suspended ceilings, between floors or in other inaccessible locations. The indicators have an elegant plastic housing with a clearly visible illuminated field. It comprises two parts - the base which is installed onto a wall or soffit and the lid which is fitted to the base with a clip plug.



Cable length of the remote indicators to detector base or voltage supply max. 100 m.

781804**Remote indicator for conventional detector series 9000, red****Features**

- 4 pulsed LEDs
- Power-saving compact indicator

Red prism is illuminated by 4 pulsed LEDs to increase the energy efficiency.

Technical Data

Operating voltage	6 ... 12 V DC
Quiescent current @ 12 V DC	approx. 0.005 mA
Alarm current	approx. 9 mA
Frequency of flash	approx. 1.5 Hz
Ambient temperature	-20 °C ... 70 °C
Storage temperature	-35 °C ... 85 °C
Air humidity	<95 %
Type of protection	IP50
Housing	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 60 g
Dimensions	W: 85 mm H: 82 mm D: 27 mm



Operation only with conventional automatic fire detectors series 9000 and standard detector base Part No. 781590.

- Adapter module (Part No. 781487) required
- max. 3 indicators per detector / max. 3 detectors per indicator
- max. 60 remote indicators per zone (with max. 20 detectors)
- each additional detector, decrease 3 remote indicators
(e.g. 21 detectors -> max. 57 remote indicators 30 detectors -> max. 30 remote indicators).

781814**Remote indicator for detector series 9000, 9200 and IQ8Quad, red****Features**

- 3 continuously or pulsed LEDs
- Power-saving compact indicator

Red prism is continuously or pulsed illuminated by 3 LEDs.

Technical Data

Operating voltage	1.8 V DC
Current consumption	approx. 9 mA
Alarm display	3 red LEDs
Ambient temperature	-20 °C ... 70 °C
Storage temperature	-35 °C ... 85 °C
Air humidity	<95 %
Type of protection	IP50
Housing	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 60 g
Dimensions	W: 85 mm H: 82 mm D: 27 mm

**Detectors series 9000**

- Standard detector base Part No. 781590 and adapter module Part No. 781487 required
- Max. 2 detectors per indicator / max. 2 indicator per detector
- Remote indicator lights continuously if activated.

Detectors series 9200/IQ8Quad

- Standard detector base Part No. 781590 or base Part No. 801593 required for series 9200 detectors
- Standard base Part No. 805590 required for series IQ8Quad
- 1 remote indicator per detector
- Indicator flashes if activated (Pulse frequency approx. 1 Hz)

781814.F0

**Remote indicator for detector series 9000, 9200 and IQ8Quad, red, France**

The action indicator visual is used to quickly locate detectors in alarm premises inaccessible or in inaccessible areas (ventilation, flooring, ceiling, roof, etc ...). Compact in form and aesthetics, indicator standard action fits in all types of buildings. The action indicator light is fixed on the 2000 series switches.

Technical Data

Operating voltage	1.8 V DC
Quiescent current	approx. 9 mA
Alarm display	3 red lights
Application temperature	-20 °C ... 70 °C
Storage temperature	-35 °C ... 85 °C
Type of protection	IP40
Housing	ABS plastic
Color	white, similar to RAL 9010
Dimensions	W: 82 mm H: 85 mm D: 27 mm



Cable length indicators to remote bases or to the power is limited to 100 m max.

781815

**Remote indicator 12 V, solder bridge open, Netherlands**

Same as 781814, but 12 V.

Technical Data

Housing	ABS plastic
Color	white, similar to RAL 9010

801824

**Remote indicator esserbus-PLus for detector series 9200 and IQ8Quad, red**

Red prism is illuminated by 4 pulsed LEDs for operation on esserbus and esserbus-Plus to increase the energy efficiency.

Technical Data

Operating voltage	8 ... 42 V DC
Quiescent current @ 12 V DC	approx. 0.007 mA
Alarm current	150 µA
Frequency of flash	approx. 1.5 Hz
Ambient temperature	-20 °C ... 70 °C
Storage temperature	-35 °C ... 85 °C
Air humidity	<95 %
Type of protection	IP50
Housing	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 60 g
Dimensions	W: 85 mm H: 82 mm D: 27 mm

Features

- 4 pulsed LEDs
- Ultra power-saving compact indicator
- Powered loop alarm device



Detectors series 9200/IQ8Quad

- Standard detector base Part No. 781590 or base Part No. 801593 required for series 9200 detectors
- Standard base Part No. 805590 required for series IQ8Quad
- max. 3 indicators per detector
- max. 103 remote indicators per loop

801825

**Remote indicator esserbus-PLus for detector series 9200 and IQ8Quad, blue****Features**

- 4 pulsed LEDs
- Power-saving compact indicator
- Powered loop alarm device

A blue prism is illuminated by 4 pulsed LEDs to increase the energy efficiency. Connection via three-wire cable. For special applications such as indication of assaults on jailers in any prison cell of penitentiaries and correctional facilities.

Technical Data

Operating voltage	14 ... 42 V DC
Quiescent current	approx. 0.007 mA
Alarm current	approx. 150 µA
Frequency of flash	approx. 1.5 Hz
Connection terminal	0.6 mm to max. 1.5 mm ²
Ambient temperature	-20 °C ... 70 °C
Storage temperature	-35 °C ... 85 °C
Air humidity	<95 %
Type of protection	IP40
Housing	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 60 g
Dimensions	W: 85 mm H: 82 mm D: 27 mm

**Automatic Fire Detectors series 9200/IQ8Quad**

- Standard detector base Part No. 781590 or base Part No. 801593 required for series 9200 detectors
- Standard detector base Part No. 805590 required for series IQ8Quad detectors
- Max. 3 indicators per detector / max. 2 detectors per indicator
- Max. 103 remote indicators per analog loop
- Do not connect remote indicator to detector base Part No. 781593
- Cable length to detector base or voltage supply max. 100 m

Manual Call Point series 9200

- Electronic module Part No. 804472.10 (for activating a LED remote indicator)

Conventional

043150

**Remote indicator for conventional detector series 9000, green, flashing**

In an elegant plastic housing and provided with a clearly visible illuminated field with 4 LED, programmable flashing mode or sustained signal. Connection without screw terminals.

Technical Data

Operating voltage	10 ... 24 V DC
Alarm current @ 12 V DC	approx. 10 mA
Ambient temperature	-10 °C ... 70 °C
Storage temperature	-25 °C ... 70 °C
Air humidity	<95 %
Type of protection	IP40
Color	gray-white, similar to RAL 9002
Dimensions	W: 85 mm H: 85 mm D: 38.5 mm

Phase-out date: 28.03.2013

Notes



Door Release System

Connection Examples

Triggering Devices

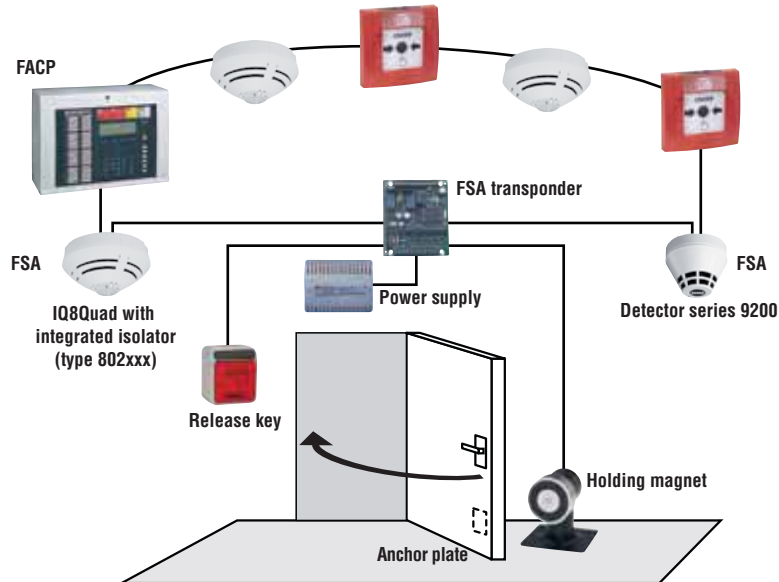
Door Holding Devices

310-311

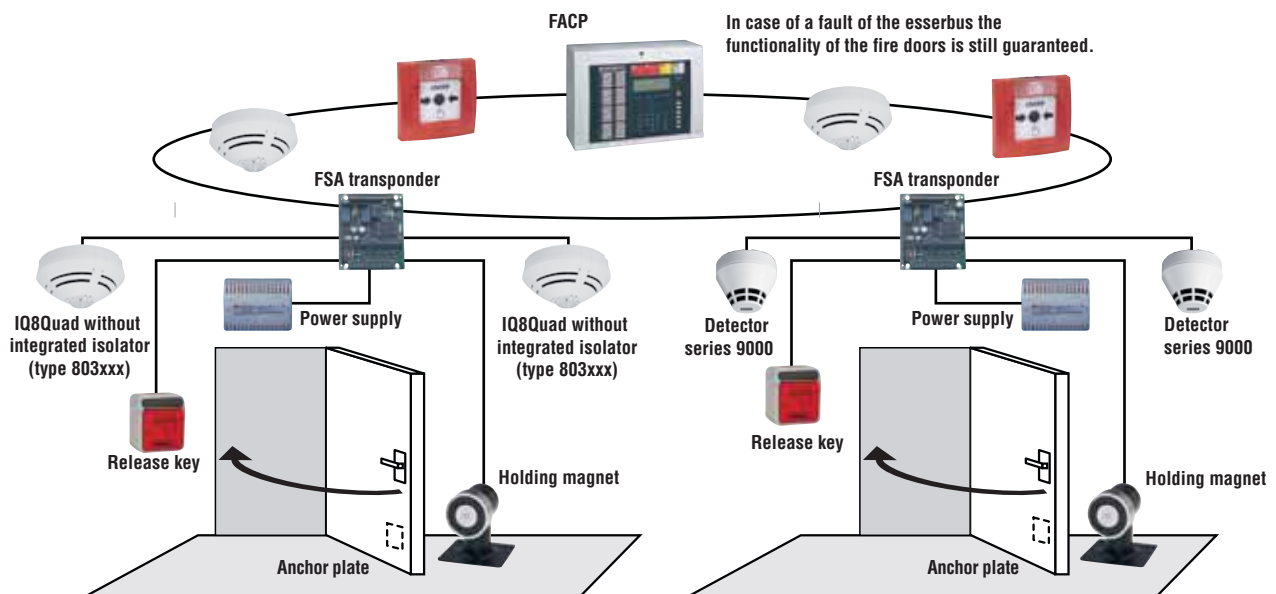
312-313

314-322

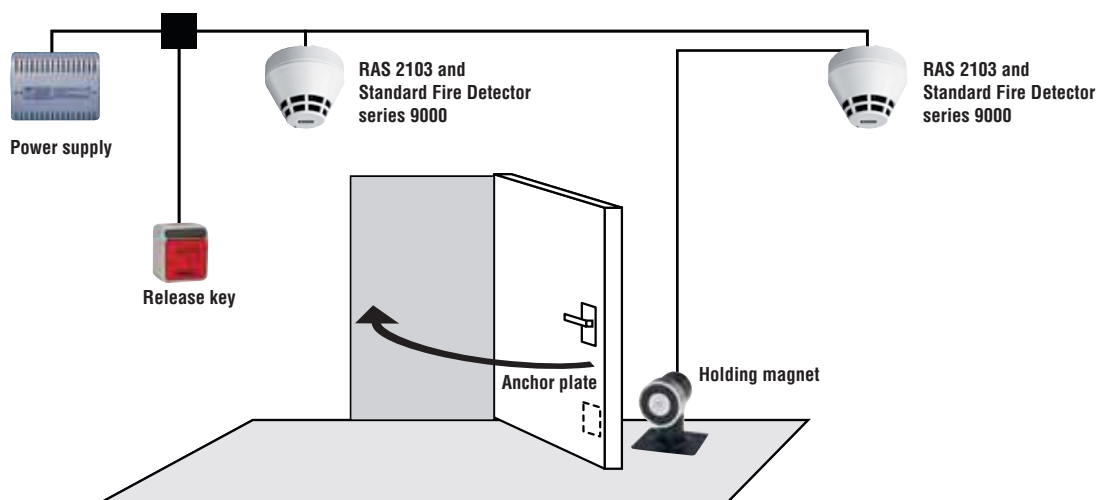
Connection Examples



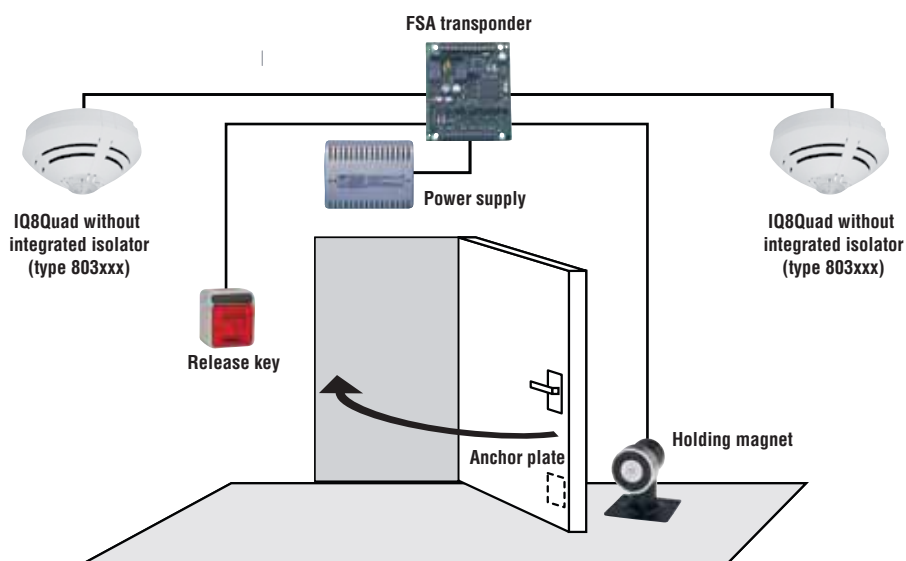
Door release functionality by detectors series 9200 or IQ8Quad as a release element on the esserbus



Preventive fire protection with several doors and the FSA transponder on esserbus



RAS 2103 smoke heat ventilation module as a stand alone solution with two standard detectors



FSA transponder as a stand alone solution with two standard fire detectors without isolator

Smoke Heat Ventilation Modules

782103

**Detector base for door release system type RAS 2103**

Detector base for door release system type RAS 2103 is used for direct activation of locking devices in compliance with the regulations of the German Institute for Building Technique (DIBt). For power supply, power supply units (Part No. 765612 and 765624) are required.

Technical Data

Operating voltage	9 ... 28 V DC
Quiescent current	approx. 25 mA (RAS with detector)
Contact load relay	50 V DC/1 A
Ambient temperature	-20 °C ... 70 °C
Storage temperature	-25 °C ... 85 °C
Type of protection	IP40 with detector, IP 42 with installation plate
Material	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 60 g
Dimensions	Ø: 89 mm H: 22 mm



The RAS 2103 may be operated with the following conventional fire detectors:

- Rate-of-rise heat detector Part No. 761262 (series 9000)
- Optical smoke detector Part No. 761362 (series 9000)

Power Supply Units for RAS 2103

765612

**Power supply unit (12 V/3 A)**

Surface mount cabinet for fire door release systems.

Technical Data

Rated voltage	230 V AC/115 V AC
Rated frequency	50 ... 60 Hz
Output voltage	12 V DC
Output current	max. 3 A
Ambient temperature	-10 °C ... 40 °C
Storage temperature	-20 °C ... 85 °C
Air humidity	≤ 95 % (without condensation)
Type of protection	IP20
Housing	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 800 g
Dimensions	W: 195 mm H: 140 mm D: 70 mm

765624

**Power supply unit (12 A/1.5 A)**

Surface mount cabinet for fire door release systems.

Technical Data

Rated voltage	230 V AC/115 V AC
Rated frequency	50 ... 60 Hz
Output voltage	24 V DC
Output current	max 1.5 A
Ambient temperature	-10 °C ... 40 °C
Storage temperature	-20 °C ... 85 °C
Air humidity	≤ 95 % (without condensation)
Type of protection	IP20
Housing	ABS plastic
Color	white, similar to RAL 9010
Weight	approx. 800 g
Dimensions	W: 195 mm H: 140 mm D: 70 mm

Release Keys

767813.10



Surface mount release key for automatic door release system, German



Surface mount release key for manual actuation of locking devices with double rocker switch insert.

Technical Data

Contact load	250 V AC/10 A
Type of protection	IP 44
Housing	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 120 g

767814.10



Flush mount release key for automatic door release system, German



Flush mount release key for manual actuation of locking devices with double rocker switch insert.

Technical Data

Contact load	250 V AC/10 A
Type of protection	IP 44
Housing	ABS plastic
Color	white
Weight	approx. 95 g

796349



Label for release key

Red sticker label for release key (Part No. 767813 and 767814).



 10 pcs



DIBt approved for:
 SHV module RAS 2103 : Z-6.5-1457
 Automatic door arrester system: Z-6.5-430
 Fire alarm system 8000 FSA: Z-6.5-1764
 FSA transponder: Z-6.5-1759

Magnetic Door Holders

The door retainer magnets from this product line are generally vacuum cast and display IP65 protection class from the basic device. The magnets are quality-controlled and are subjected to a sampling twice per year by the VdS. In addition, all dimensions are in accordance with European specifications and tested in compliance with the EN1155.

767010



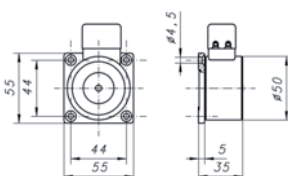
Door retainer DH50-N490-WM



Door retainer with polarity reversal protection and connecting terminal including fixing plate for wall mounting.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	490 N
Dimensions	Ø: 50 mm H: 30 mm



767011



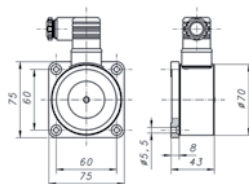
Door retainer DH70-N1372-WM



Same as 767010, but with 1372 N of holding power and additional contact box IP65.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	1372 N
Dimensions	Ø: 70 mm H: 35 mm



767012



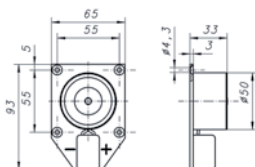
Door retainer DH50-N490-WM



Same as 767010, but with steel fixing plate for usage with locking devices on sliding doors.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	490 N
Dimensions	Ø: 50 mm H: 35 mm



767013



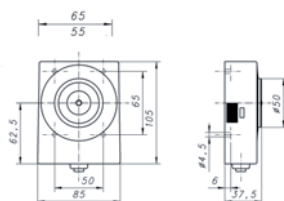
Door retainer DH50-N490-WM



Door retainer for wall mounting with polarity reversal protection, terminal and manual release key for rear cabling.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	490 N
Dimensions	W: 105 mm H: 85 mm D: 37.5 mm



767014



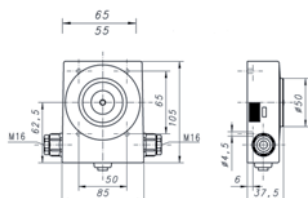
Door retainer DH50-N490-WM



Same as 767013, but with additional screwed cable gland.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	490 N
Dimensions	W: 105 mm H: 85 mm D: 37.5 mm



767015



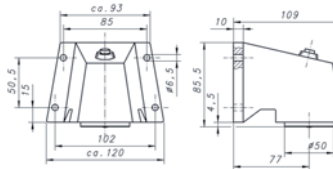
Door retainer DH50-N490-GM



Door retainer with aluminum bracket for base mounting.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	490 N
Dimensions	W: 109 mm H: 121 mm D: 86 mm



767016



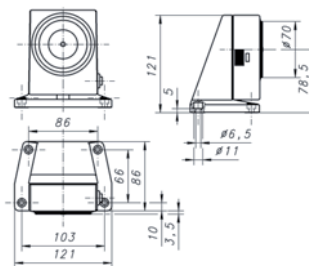
Door retainer DH70-N1372-GM



Same as 767015, but with 1372 N of holding power and plastic bracket.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	1372 N
Dimensions	W: 109 mm H: 121 mm D: 86 mm



767017



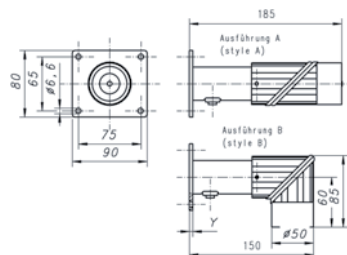
Door retainer DH50-N490-UM



Door retainer optionally suitable for base, ceiling and wall mounting. The anodized aluminum swivel head can be changed from wall to base and/or ceiling mounting. The tube can be shortened to 110 and/or 145 mm (base / wall mounting).

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	490 N
Dimensions	W: 90 mm H: 80 mm D: 150 mm (Ground mounting) W: 90 mm H: 80 mm D: 185 mm (Wall mounting)



767018



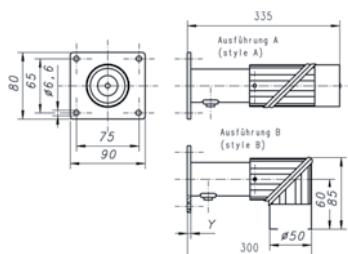
Door retainer DH50-N490-UM



Same as 767017, but with base length 300/335 mm.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	490 N
Dimensions	W: 90 mm H: 80 mm D: 300 mm (Ground mounting)
	W: 90 mm H: 80 mm D: 335 mm (Wall mounting)



767019



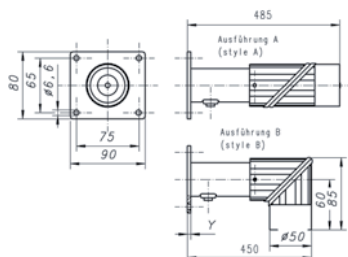
Door retainer DH50-N490-UM



Same as 767017, but with base length 450/485 mm.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	490 N
Dimensions	W: 90 mm H: 80 mm D: 450 mm (Ground mounting)
	W: 90 mm H: 80 mm D: 485 mm (Wall mounting)



767020



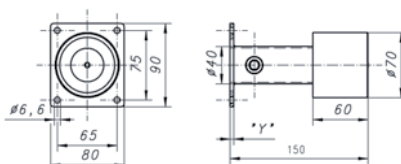
Door retainer DH70-N1372-UM



Door retainer exclusively for wall mounting with holding power of 1372 N.

Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Holding power	1372 N
Dimensions	W: 90 mm H: 80 mm D: 150 mm (Wall mounting)



Intrinsically Safe

767153



Ex holding magnet



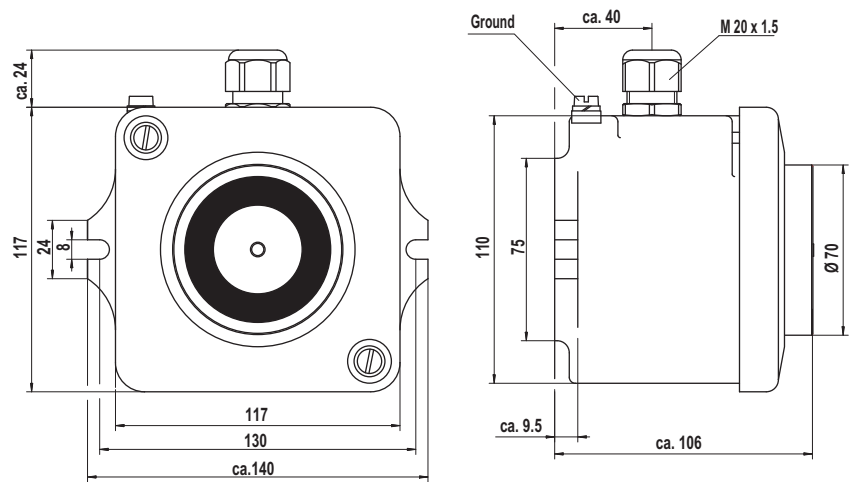
Explosion-proof and encapsulated holding magnet for hazardous areas.
Approval: ATEX

Technical Data

Operating voltage	24 V DC
Power consumption	3 W
Holding power	1568 N
Ambient temperature	0 °C ... 35 °C
Ex-category	II 2G (gas) and 2D (dust)
Explosion protection	EExme II T6 (gas) and T73°C IP6X (dust)
Type of protection	IP 54
EC-type examination certificate	TÜV01 ATEX 1778 X



The anchor plate is not supplied as standard.



Dimension drawing

Anchor Plates

The door retainer magnets from this product line are generally vacuum cast and display IP65 protection class from the basic device. The magnets are quality-controlled and are subjected to a sampling twice per year by the VdS. In addition, all dimensions are in accordance with European specifications and tested in compliance with the EN1155.

767030



Anchor plate DH50-AP-S

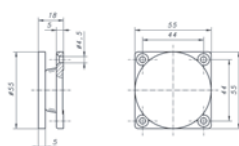
Fixing plate for door retainers with a diameter of 50 mm.



Technical Data

Dimensions

W: 55 mm H: 55 mm D: 18 mm



767031



Anchor plate DH70-AP-S

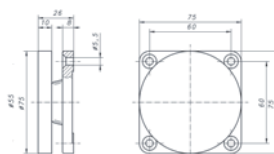
Anchor plate for door retainers with a diameter of 70 mm.



Technical Data

Dimensions

W: 75 mm H: 75 mm D: 26 mm



767032



Anchor plate DH70-AP-SX

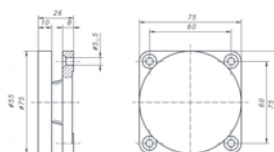
Same as 767031, but for usage within areas at risk of explosions (Ex areas).



Technical Data

Dimensions

W: 75 mm H: 75 mm D: 26 mm



767033



Anchor plate DH50-AP-M

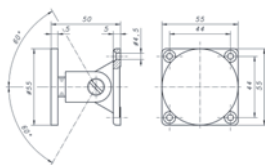


Anchor plate with angle setting for door retainers with 50 mm diameter. This model is designed for applications in which there is an angle of contact of the door. The anchor plate is adjustable and mountable by 60° settings into the respective direction through the hinge.

Technical Data

Dimensions

W: 55 mm H: 55 mm D: 50 mm



767034



Anchor plate DH70-AP-M

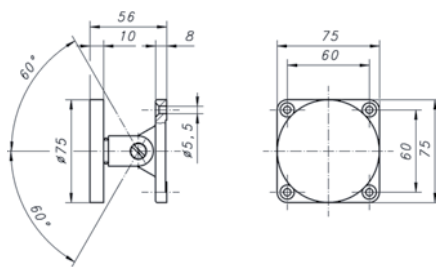


Same as 767033, but for door retainers with 70 mm diameter.

Technical Data

Dimensions

W: 75 mm H: 75 mm D: 56 mm



767035



Ex anchor plate DH70-AP-MX

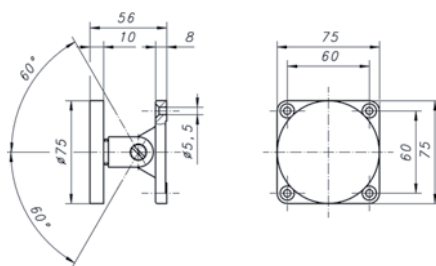


Same as 767034, but for usage within areas at risk of explosions (Ex areas).

Technical Data

Dimensions

W: 75 mm H: 75 mm D: 56 mm



Door Release System

Door Holding Devices

767036



Anchor plate DH50-AP-A

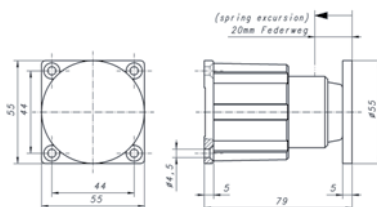


Telescopic anchor plate for door retainers with 50 mm diameter. The actual plate is cushioned by means of a built-in spring (spring deflection about 20 mm). This is advantageous with heavy doors and/or sliding doors in order to reduce possible impacts and to protect the door retainer and doors from damage. The stop position shouldn't be more than 5°.

Technical Data

Dimensions

W: 55 mm H: 55 mm D: 79 mm



767037



Anchor plate DH70-AP-A

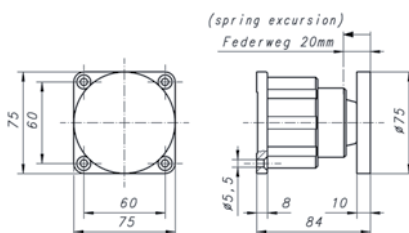


Same as 767036, but for door retainers with 70 mm diameter.

Technical Data

Dimensions

W: 75 mm H: 75 mm D: 84 mm



767038



EX anchor plate DH70-AP-AX

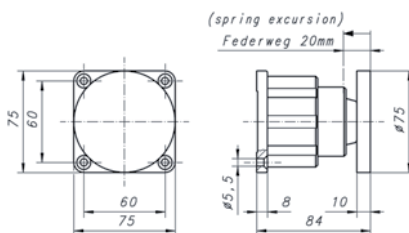


Same as 767037, but for usage within areas at risk of explosions (Ex areas).

Technical Data

Dimensions

W: 75 mm H: 75 mm D: 84 mm



Accessories

767800



Mounting bracket for lintel installation



Mounting bracket for all bases/detectors of the IQ8Quad group, series 9x00, RAS 2103 for IQ8Alarm including all alarm devices.

The distance between the mounting holes is 6 cm and the diameter is about 5 mm.

Technical Data

Material
Color

aluminum
white, similar to RAL 9010



Mounting bracket and installation material

796094



FSA label



796349



Label for release key

Red sticker label for release key (Part No. 767813 and 767814).



10 pcs

796356.10



Label for release push button, red



6 pieces





Installation & Service	Installation Accessories	324-330
	Housings	331-335
	Services	336

Surge Protection

764730

**OVP module for TTY interfaces and standard detector zones**

Overvoltage protection module as 4-pin, rail-mounted device.

Space-saving combined surge protector module for the protection of two wire pairs of symmetrical interfaces with electrical isolation.

Technical Data

Rated voltage	24 V
Rated current	1 A @ 45 °C
max. cont. operating voltage a.c.	23.3 V AC
max. cont. operating voltage d.c.	33 V DC
Nom. discharge current (80/20)/line	10 kA
Total nom. discharge current	20 kA
Total lightning imp. current (10/350)	10 kA
Lightning imp. current (10/350)/line	2.5 kA
Ambient temperature	40 °C ... 80 °C
Type of protection	IP20

Accessories

764737 Base for overvoltage protection module

764731

**OVP module for essernet and RS 485 interfaces**

Space-saving combined surge protector with LifeCheck for the protection of two wire pairs of radio-frequency bus systems, with either direct or indirect shield grounding.

Technical Data

Rated voltage	5 V
Rated current	1 A @ 45 °C
max. cont. operating voltage a.c.	4.2 V AC
max. cont. operating voltage d.c.	6 V DC
Nom. discharge current (80/20)/line	10 kA
Total nom. discharge current	20 kA
Total lightning imp. current (10/350)	9 kA
Lightning imp. current (10/350)/line	2.5 kA
Ambient temperature	40 °C ... 80 °C
Type of protection	IP20

Accessories

764737 Base for overvoltage protection module

764732

**OVP module including base support for 230 V power supply line**

Two-pin surge protector comprising base element and connected protection module, with potential-free telecommunications contact for independent fault forwarding.

Technical Data

Rated voltage	230 V AC
max. cont. operating voltage a.c.	255 V AC
max. cont. operating voltage d.c.	255 V DC
Nominal load current a.c.	25 A
Total discharge current (8/20) [L+N-PE]	5 kA
Combined impulse	6 kV
Combined impulse [L+N-PE]	10 kV
Voltage protection level [L/N-PE]	≤ 1500 V
Voltage protection level [L-N]	≤ 1250 V
Response time [L/N-PE]	≤ 100 ns
Response time [L-N]	≤ 25 ns
Ambient temperature	40 °C ... 80 °C
Type of protection	IP20



Base element and connected protection module

764733

**OVP module for esserbus / esserbus-PLUS loop**

Space-saving combined surge protector module for the protection of two wire pairs symmetrical interfaces with electrical isolation.
Two overvoltage protection module of this type is required for each loop.

Technical Data

Rated voltage	48 V
Rated current	1 A @ 45 °C
max. cont. operating voltage a.c.	38.1 V AC
max. cont. operating voltage d.c.	54 V DC
Nom. discharge current (80/20)/line	10 kA
Total nom. discharge current	20 kA
Total lightning imp. current (10/350)	10 kA
Lightning imp. current (10/350)/line	2.5 kA
Ambient temperature	40 °C ... 80 °C
Type of protection	IP20 (connected)

Accessories

764737 Base for overvoltage protection module

764734

**OVP module for analog telephone lines**

Space-saving combined surge protector module for the protection of one wire pair of symmetrical interfaces with electrical isolation.

Technical Data

Rated voltage	180 V
Rated current	0.75 A @ 45 °C
max. cont. operating voltage a.c.	127 V AC
max. cont. operating voltage d.c.	180 V DC
Nom. discharge current (80/20)/line	10 kA
Total nom. discharge current	20 kA
Total lightning imp. current (10/350)	5 kA
Lightning imp. current (10/350)/line	2.5 kA
Ambient temperature	40 °C ... 80 °C
Type of protection	IP20 (connected)

Accessories

764737 Base for overvoltage protection module

764735

**OVP module for ISDN telephone lines**

For ISDN S0 bus with RJ 45 connections.

The additional screw terminal connection on the protected output enables a double wiring of the S0 bus (distribution function).

Technical Data

Rated voltage	5 V
Rated current	0.2 A
max. cont. operating voltage d.c.	7.5 V DC
Nom. discharge current (80/20)/line	2.5 kA
Total nom. discharge current	10 kA
Ambient temperature	40 °C ... 80 °C
Type of protection	IP10



No base support is required for the connection.

764736

**OVP module for control outputs**

Power-coordinated combined surge protector for the protection of ungrounded DC power supplies for mounting-rail installation.

Protection of monitored and potential-free control outputs up to 36 volts.

Technical Data

Rated voltage	36 V
Rated current	7 A @ 40 °C
max. cont. operating voltage d.c.	45 V DC
Nom. discharge current (80/20)/line	10 kA
Total nom. discharge current	20 kA
Total lightning imp. current (10/350)	5 kA
Lightning imp. current (10/350)/line	2.5 kA
Ambient temperature	40 °C ... 80 °C
Type of protection	IP20



No base support is required for the connection.

764737

**Base module for OVP modules**

Base part as very space-saving, 4-pin, universal feed-through terminal to accommodate the surge protector module without signal interruption.

The secure grounding of the surge protector module is established via the mounting rail support base by means of a snap-on attachment.

As no components of the protection circuit are located in the base part, maintenance work is restricted to the protection modules.

Technical Data

Ambient temperature	40 °C ... 80 °C
Type of protection	IP20



Tool-free attachment on 35 mm mounting rails.

Interface Converters

764852



Converter RS 232/RS 485



For converting an interface signal from RS 232 to RS 485 and vice versa. Suitable for C-rail mounting.

Technical Data

Operating voltage	12 ... 24 V DC /AC
Current consumption @ 12 V DC	approx. 85 mA
Housing	plastic small-design housing
Weight	approx. 500 g (incl. power supply)
Dimensions	W: 105 mm H: 75 mm D: 22 mm

Features

- RS 485, 2 and 4 wire compatible
- RS 485, automatic mode
- No re-configuration of transmission parameters required
- Min. 1 kV electrical isolation
- Top hat rail housing according to DIN EN 50022-35
- Suitable as "non-intelligent" converter for
- RS 485 field buses (e.g. profibus, CS31, etc.) <> RS 232



- 1 x Interface RS 232/RS 485 industry
- 1 x Power supply unit

764855



Converter RS 232 / TTY



When using this converter as, for example, a current-loop line driver (amplifier), a printer with a serial or parallel interface or a fire alarm panel or an intruder alarm panel can be operated at a distance of up to 1000 m from the management system.



Please note that two RS 232/TTY converters are required for each connection.



- 1 x Converter RS 232
- 1 x Serial connecting plug
- 1 x Parallel connection plug
- 1 x Power supply unit

Features

- RS 232 data rate up to 128 kbps
- TX, RX Active/Passive selectable
- 20 or 60 mA selectable
- DTE/DCE device setting selectable
- TD/RD LED indicators
- Power LED indicator

764853



Converter RS232/TTY jack, version English



Same as 764855, but with English jack version.

Accessories

057633



Installation frame for transmission units and transponders



Installation frame specially designed for 8000 C/M, IQ8Control C/M and FlexES Control panels (IQ8Control C only with extension housing).

Technical Data

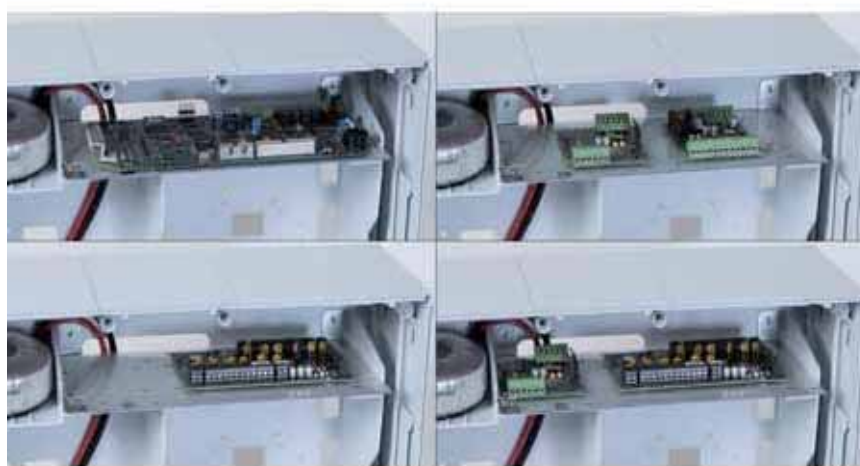
Dimensions

W: 280 mm H: 130 mm D: 25 mm



1 x Installation frame
1 x Insulation foil and installation material

Phase-out date: 28.03.2013



Application example

050510



Network interference suppression filter type 2VK3



The mains interference suppression filter is intended for later installation in all mains-operated devices in which problems due to HF power failure arise.

Technical Data

Rated voltage	115 V-250 V AC
Rated current	2 A
Rated frequency	50 ... 60 Hz
Ambient temperature	-10 °C ... 40 °C
Dimensions	W: 52.6 mm H: 46 mm D: 23.1 mm (without flange)



Mains interference suppression filter and terminal block

070450

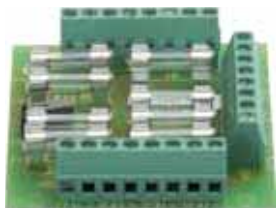


Additional relay 12 V DC

Small PCB with relay, connection terminals, two changeover contacts.



382040

**8-fuse card****Approval: VdS**

Fuse card with 8 x 0.5 A fuses for individual power supply protection of each area, zone and component. It can be used with all Esser mains units, fire and intrusion detection panels.

Technical Data

Contact load	30 V DC / 1 A
Connection terminal	0.6 mm to max. 1.5 mm ²
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	≤ 95 % (without condensation)
Weight	approx. 85 g
Dimensions	W: 65 mm H: 72 mm D: 15 mm



Possible installation in housings: Part No. 120240, 120242, 120244, 788600, 788601, 788650, 788650.10, 788651, 788651.10, 788603 and 788603.10

767510

**Control relay for top-hat rail mounting****Technical Data**

Operating voltage	12 V DC
Contact load relay	250 V AC/DC, 6 A
Ambient temperature	-20 °C ... 55 °C

788602

**Top-hat rail****Technical Data**

Dimensions	L: 400 mm
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Mounting kit

788652

**Mounting rail for FACP**

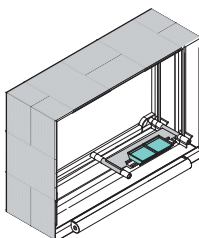
The top hat rail installation kit can be retrofitted into the IQ8Control unit housing. The hat rail is fitted to the mounting board via two screws. A maximum of two (Part No. 788603.10) module housings (option) can be mounted to the control unit housing.

Technical Data

Dimensions	L: 35 mm W: 175 mm (standard-snap-on mounting rail)
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Mounting rail and accessories



Application example

788603.10



Module housing for top-hat mounting rail



For snap-on mounting rail of several electronic modules with 82 x 72 mm PCB size. Angled cable entry.

Technical Data

Material	plastic
Color	green



1 x UM-profile and 2x side panels



Application example with transponder

788605



Mounting kit



Mounting kit required for mounting esserbus transponders in extension housings.



4 x spacer bolts and 2 x fixing screws

704147



Cable gland M12 with nut



Polyamide cable gland to increase the protection level.

Technical Data

Ambient temperature	-20 °C ... 95 °C
Type of protection	IP67
Material	Polyamide
Color	gray
Cable diameter	6.5 mm

704148



Cable gland M16 with nut



Polyamide cable gland to increase the protection level.

Technical Data

Ambient temperature	-20 °C ... 95 °C
Type of protection	IP67
Material	Polyamide
Color	gray
Cable diameter	8 mm

Housings

788600

**Housing surface mount, gray**

Small distributor housing for esserbus transponders.

The following esserbus transponder types can be used:

- 2 esserbus transponders each of dimensions (W x H x D) 82 x 72 x 20 mm
- 1 esserbus transponder of dimensions (W x H x D) 150 x 82 x 20 mm

Technical Data

Type of protection	IP40
Material	ABS
Color	gray, similar to RAL 7035
Dimensions	W: 189 mm H: 131 mm D: 47 mm

788601

**Housing flush mount, gray**

Same as 788600, but flush-mounted version.

Technical Data

Type of protection	IP40
Material	ABS
Color	gray, similar to RAL 7035
Dimensions	W: 189 mm H: 131 mm D: 47 mm W: 207 mm H: 149 mm (cover)

Phase-out-date: 01.01.2011

788650.10

**Housing surface mount, white**

Same as 788600, but white.

Technical Data

Type of protection	IP40
Material	ABS
Color	white, similar to RAL 9003
Dimensions	W: 189 mm H: 131 mm D: 47 mm

788651.10

**Housing flush mount, white**

Same as 788601, but white.

Technical Data

Type of protection	IP40
Material	ABS
Color	white, similar to RAL 9003
Dimensions	W: 189 mm H: 131 mm D: 47 mm W: 207 mm H: 149 mm (cover)

Fire Protection Housings F30

Features

- Fire resistance F30, tested in accordance with DIN 4102-2
- Function retention over 30 minutes, in accordance with DIN 4102-12
- Fire load insulation over 30 minutes, in accordance with DIN 4102-11
- Smokeproof
- Integrated mounting rail system to house the FACP IQ8Control
- Cable sealing for bundle feed-in (above)
- Closure via push rod with 2-point locking
- Locking via pivoted lever without locking cylinder
- Heavy-duty fixing straps
- Construction material surface coating A2; non-combustible in accordance with DIN 4102-1
- Ventilation system, including active ventilation via top fans

Fire protection housings permit the installation of a FACP IQ8Control or FlexES Control in accordance with the requirements of the German Fire Conduit Installation Guidelines (MLAR and LAR) of the different Federal German regions in a protected environment.

The duration of the function retention of the electrical line installations for safety installations is at least 30 minutes for:

- Fire alarm systems, including the associated transmission installations
- Systems for alarm signaling and issuing of instructions to visitors and employees, insofar as these installations need to be in operation in the event of a fire.

Fire alarm systems IQ8Control or FlexES Control required under building law, which are operated with alarm signaling equipment, can be operated in these fire protection housings in accordance with DIN 4102-2 with DIBt approval.

The housing forms part of the VdS equipment certification and, as a certified distributor, guarantees a power supply of the alarm signaling equipment beyond 30 minutes.

Other housings do not meet the approval requirements and must not be used.

In addition, the fire protection housing meets the fire load insulation requirements in accordance with §40, paragraph 2, of the MBO (Standard Building Regulations), as a FACP IQ8Control or FlexES Control can also be used in this housing in the required emergency access and escape routes.

A maximum of one FACP IQ8Control or FlexES Control, including transmission unit, can be installed in one fire protection housing.

Since the door of the fire protection housing is always closed in normal operation and therefore the operating level 1 is not accessible in accordance with EN54-2, an FBIP for initial information may be required in consultation with the relevant fire brigade.



Since the top fan must provide a static air exchange, as a result of which a continuous noise climate of at least 51 dB is generated, installation at permanent workstations must be avoided.



Fire protection housing, including top fan, mounting frame and fixing material

788030

**Fire protection housing F30 RO****Features**

- Fire resistance F30, certified in accordance with DIN 4102 part 2
- Functional integrity of over 30 minutes, in accordance with DIN 4102 part 12
- Fire load insulation of over 30 minutes in accordance with DIN 4102 part 11
- Protection type conforming IP41
- Smoke-proof
- Surface mounted
- Integrated mounting rail system for FACP IQ8Control
- Locking via pivoting lever without locking cylinder
- Cable chute for bundle inlet above
- Push rod fastener with 2 point interlock
- Mounting straps
- Building material surface coating A2 non-combustible in accordance with DIN 4102 part 1
- Color light gray (other colors available for an additional charge) Ventilation system includes active ventilation and thermal shutter release
- Weight approx. 164 kg

Fire protection housings permit the installation of a FACP from the series IQ8Control in accordance with MLAR and LAR requirements of the different federal states. The duration of the functional integrity of the electrical circuit systems for security technology systems must account for at least 30 minutes for:

- fire detection systems including the corresponding transmission systems
- systems that alarm and issue directives to visitors and employees, in as much as these systems must be effective in cases of fire.

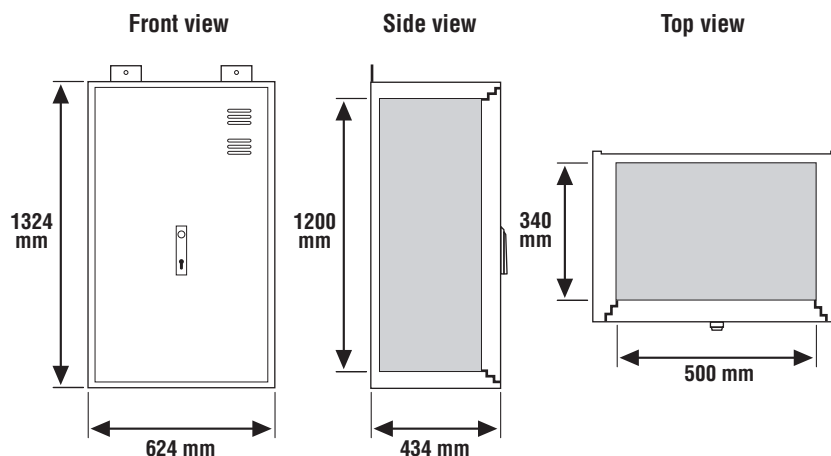
FACP IQ8Control C or M required by building laws that can be operated by an esserbus-PLUS warning device can be operated in this fire protection housing in accordance with DIN4102 part 2 with approval according to DIBT. The housing is a component of the VdS device approval and, as an approved distributor, supplies power to the warning device for over 30 minutes. Other housings do not fulfill the approval requirements and may not be used. In addition, the electro-housing fulfills fire load insulation requirements in accordance with §40 paragraph 2 of the MBO, as an FACP IQ8Control can be used for necessary emergency and evacuation exits as well. Should the interior of the housing ignite, the air intake openings will automatically close and a cold desmoking will be prevented. At most, an FACP IQ8Control C or IQ8Control M including transmission device may be built into the electro-housing. As operation level 1 cannot be reached in accordance with EN 54-2, an FAT can be necessary for initial information after consultation with the responsible fire brigade. It must be assured that the fire protection housing door always remains closed during normal operation.

Technical Data

Type of protection	IP41
Color	light gray (other colors available for an additional charge)
Weight	approx. 164 kg



Mounting material, sealing kit and chute material incl. base (Part No. 805590), without detector



Dimensions illustration

788031

**Fire protection housing F30 LO**

Same as 788030, but door hinge left.

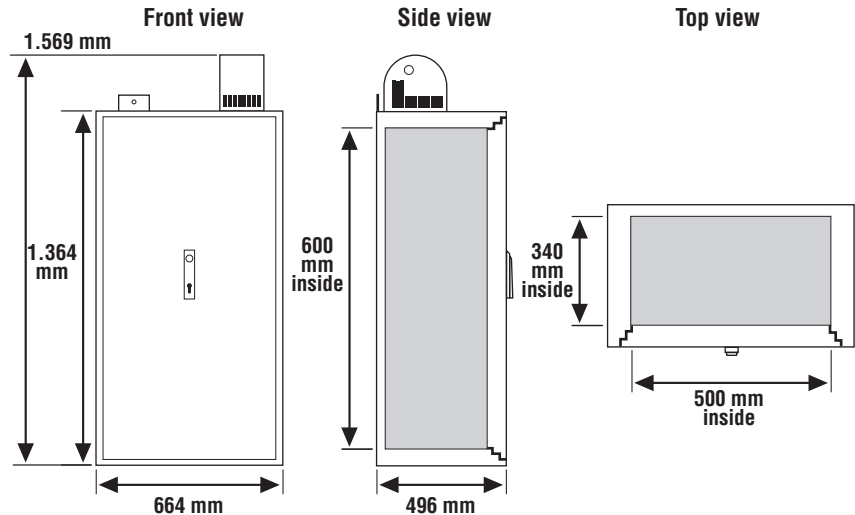
788033

**Fire protection housing for wall mounting F30 R**

Fire protection housing with "right-hand" door stop for a FACP IQ8Control C/M-, or an FlexES Control (FX2-FX10) for maximum 3 FACP housings.

Technical Data

Color	light gray, similar to RAL 7035
Weight	approx. 135 kg
Dimensions	W: 664 mm H: 1364 mm D: 496 mm (outside) W: 500 mm H: 1200 mm D: 240 mm (inside)



788034

**Fire protection housing for wall mounting F30 L**

Same as 788033, but for "left-hand" door stop.

Technical Data

Color	light gray, similar to RAL 7035
Weight	approx. 135 kg
Dimensions	W: 664 mm H: 1364 mm D: 496 mm (outside) W: 500 mm H: 1200 mm D: 240 mm (inside)

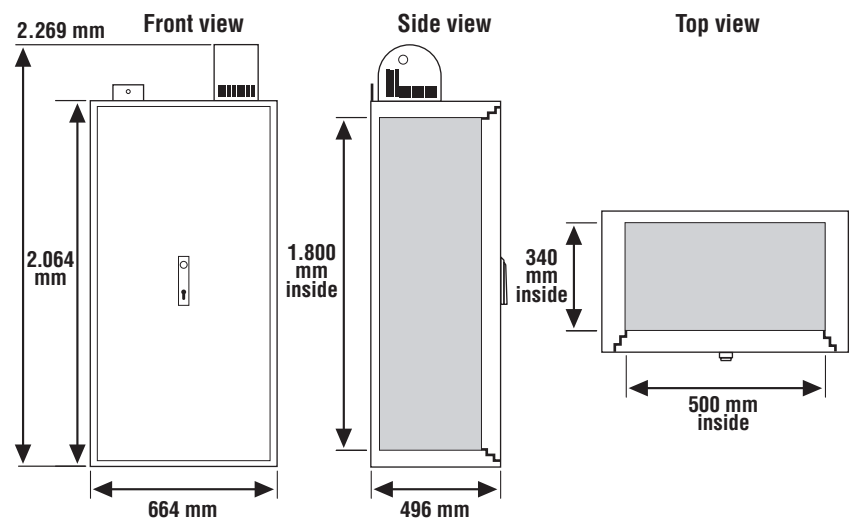
788035

**Fire protection cabinet F30 R**

Fire protection housing with "right-hand" door stop for a FACP IQ8Control C/M-, or an FlexES Control (FX10-FX18) for maximum 3 FACP housings.

Technical Data

Color	light gray, similar to RAL 7035
Weight	approx. 275 kg
Dimensions	W: 664 mm H: 2064 mm D: 496 mm (outside) W: 500 mm H: 1800 mm D: 340 mm (inside)



788036



Fire protection cabinet F30 L

Same as 788035, but for "left-hand" door stop.

Technical Data

Color	light gray, similar to RAL 7035
Weight	approx. 275 kg
Dimensions	W: 664 mm H: 2064 mm D: 496 mm (outside) W: 500 mm H: 1800 mm D: 340 mm (inside)

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798655



Log book for FAS (DE/GB)



Benutzerhandbuch für Brandmeldeanlagen (BMA)
Log Book for Fire Alarm Systems (FAS)

Multilingual file for fire alarm systems suitable for recording operating states, events and maintenance work, etc.



Appendix

Planning Guide

338

Order Forms

339-343

Terms and Conditions

358-359

Planning Guide for Loop Installation

This is a planning guide for loop-powered alarm devices.

The alarm current of each alarm device is defined as a load factor. When added up, the total load factor defines the loop length and the maximum number of alarm devices.

The maximum load factor of all alarm devices may not exceed 96. Altogether up to 127 bus devices per loop can still be connected. The "load factor" download file for easier load factor calculation is available within our customer section at <http://www.esser-system.com>.

Load factors:

Part No.	Type of alarm signaling device	Load factor
802382	O/So optical smoke detector IQ8Quad with isolator.....	2
802383	O2T/F multisensor fire detector IQ8Quad with isolator	2
802384	O2T/So multisensor fire detector IQ8Quad with isolator	2
802385	O2T/FSp multisensor fire detector IQ8Quad with isolator.....	3
802386	O2T/Sp multisensor fire detector IQ8Quad with isolator	3
807205	IQ8Alarm/So signaler with isolator, white.....	3
807206	IQ8Alarm/So signaler with isolator, red	3
807212	IQ8Alarm/F signaler with isolator, amber flash.....	3
807213	IQ8Alarm/F signaler with isolator, blue/green/white flash	3
807214	IQ8Alarm/F signaler with isolator, red flash.....	3
807322	IQ8Alarm/Sp signaler with isolator, white.....	3
807224	IQ8Alarm/FSO signaler with isolator, red.....	3
807332	IQ8Alarm/Sp signaler with isolator, red.....	3
807372	IQ8Alarm/FSp signaler with isolator, red.....	3

Table 1.1: Maximum loop length depending on the total load factor

Maximum powered loop length	Total load factor
up to 700 m	91 up to 96
up to 800 m	85 up to 90
up to 900 m	79 up to 84
up to 1000 m	73 up to 78
up to 1100 m	67 up to 72
up to 1300 m	61 up to 66
up to 1500 m	55 up to 60
up to 1700 m.....	49 up to 54
up to 2000 m.....	43 up to 48
up to 2500 m.....	37 up to 42
up to 3000 m	31 up to 36
up to 3500 m.....	1 up to 30

Example 1:

How many IQ8Alarm alarm signaling devices with load factor 3.0 can be connected to one analog loop?

Max. total load factor 96 : 3.0 (load factor) = up to 32 IQ8Alarm devices can be connected to each loop depending on the loop length (up to 700 m)

Example 2:

Various types of alarm signaling devices are connected to one loop:

$$\begin{array}{rcl}
 & & \text{Load factor} \\
 4 \times 807205 \text{ alarm devices with load factor } 3.0 & = & 4 \times 3.0 = 12 \\
 & & + \\
 27 \times \text{O}^2\text{T/So multisensor fire detector IQ8Quad (802384) with load factor } 2.0 & = & 27 \times 2.0 = 54 \\
 & & \text{total load factor} = \mathbf{66}
 \end{array}$$

As shown in table 1.1, the maximum loop length for a total load factor of 66 is 1300 m (at a wire gauge 0.8 mm).

Example 3:

For alarm signaling with sounder, 25 x 802384 IQ8Quad O²T/So detectors are installed - each in one office. What is the maximum loop length?






Load factor for one 802384 IQ8Quad O²T/So detector = 2 (load factor)
 25 IQ8Quad O²T/So x 2 (load factor) **total load factor = 50**

As shown in table 1.1, the maximum loop length is 1700 m (at a wire gauge 0.8 mm).













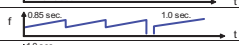
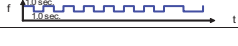





Order Information for Alarm Signaling Devices IQ8Quad and IQ8Alarm

1. The IQ8Quad O²T/FSp multisensor fire detector (Part No. 802385) and the IQ8Alarm "Combi" Speech Alarm (Part No. 802385) can also be ordered with a different combination of languages.

The following five languages are the programmed standard for these speech alarms. The respective languages are assigned with the five standard speech announcements for the IQ8Quad (Part No. 802385) and the IQ8Alarm (Part No. 807372).

Country code acc. to ISO 3166 -Alpha-2	Language code acc. to ISO 639-1	Evacuation 1	Evacuation 2	Alarm	Test message	All-Clear
 Germany (DE)	de	Dies ist ein Feueralarm. Bitte verlassen Sie das Gebäude umgehend über die nächsten Fluchtwege. Die Feuerwehr ist alarmiert.	Achtung, Achtung! Dies ist eine Gefahrenmeldung. Bitte verlassen Sie das Gebäude über die nächsten Ausgänge.	Achtung, im Gebäude ist eine Gefahrensituation gemeldet worden. Bitte bleiben Sie ruhig, und warten Sie auf weitere Anweisungen.	Dies ist eine Testdurchsage.	Die Gefahrensituation ist jetzt behoben. Wir entschuldigen uns für jegliche Unannehmlichkeiten.
 Great Britain (GB)	en	This is a fire alarm. Please leave the building immediately by the nearest available exit.	Attention please. This is an emergency. Please leave the building by the nearest available exit.	An incident has been reported in the building. Please await further instructions.	This is a test message. No action is required.	The emergency is now cancelled. We apologize for any inconvenience.
 France (FR)	fr	Ceci est une alarme incendie, veuillez évacuer immédiatement les locaux par la sortie la plus proche.	Votre attention s'il vous plaît, ceci est une alarme. Veuillez évacuer les locaux par la sortie la plus proche.	Un incident est signalé dans le bâtiment. Merci de garder votre calme et attendez les prochaines instructions.	Ceci est un test.	L'alarme est à présent annulée. Veuillez nous excuser pour le désagrément.
 Spain (ES)	es	Esto es una alarma de incendio. Abandonen por favor el edificio inmediatamente por la salida de evacuación más cercana.	Atención. Esto es una emergencia. Por favor abandonen el edificio por la salida de evacuación más cercana.	Atención, se ha reportado un incidente en el edificio. Aguarden por favor otras instrucciones.	Esto es un mensaje de prueba. No se requiere ninguna acción.	La emergencia ha sido cancelada. Pedimos disculpas por las molestias causadas.
 Italy (IT)	it	Attenzione. Allarme incendio. Abbandonare l'edificio tramite l'uscita di emergenza più vicina.	Attenzione. Allarme in corso. Vi preghiamo di recarvi presso l'uscita di emergenza più vicina.	Attenzione. E' stato rilevato un allarme. Ulteriori disposizioni vi verranno comunicate appena possibile.	Attenzione. E' in corso una prova di allarme. Non è richiesta alcuna azione.	Attenzione. Cessato allarme. La situazione di normalità è stata ripristinata.

Standard speech messages of IQ8Quad detectors and IQ8Alarm

No.	Description	Frequency	Pulse rate
1	School bell	complex	complex
2	FP 1063.1 Telecoms BS 5839 Pt1	Alternating 800 / 970 Hz at 2 Hz	
3	BS 5839 Pt1	Alternating 800 / 970 Hz at 1 Hz	
4	BS 5839 Pt1	Intermittent 970 Hz at 1 Hz 0.5 sec.	
5	BS 5839 Pt1	Intermittent 2850 Hz at 1 Hz 0.5 sec.	
6	BS 5839 Pt1	Intermittent 970 Hz 1/4 sec. ON - 1 sec. OFF	
7	BS 5839 Pt1	Continuous 970 Hz	
8	BS 5839 Pt1	Sweep tone 800 Hz tp 970 Hz at 7 Hz	
9	BS 5839 Pt1	Sweep tone 800 Hz to 970 Hz at 1 Hz	
10	DIN Tone DIN 33404 Part 3	1200 - 500 Hz at 1 Hz	
11	French fire sound	554 Hz / 100 ms + 440 Hz / 400 ms + 10 %	
12	NL - Slow Whoop	500 Hz - 1200 Hz at 3.5 sec. break of 0.5 sec.	
13	US - Horn	Continuous 485 Hz	
14	US - Horn with Temporal Pattern	Intermittent 485 Hz (0.5 sec. ON; 0.5 sec. OFF; 3 times; 1.5 sec. OFF; Repeat)	
15	US - March Time	Alternating 485 Hz (0.25 sec. ON; 0.25 sec. OFF; Repeat)	
16	US - Slow Whoop	Sweep tone 500 Hz to 1200 Hz (4.0 sec. ON; 0.5 sec. OFF; Repeat)	
17	US - Siren	Sweep tone 600 Hz to 1200 Hz (1.0 sec. ON, Repeat)	
18	US - Hi/Lo	Alternating 100 Hz / 800 Hz (0.25 sec. ON; Alternate; 0.25 sec. ON; Alternate; Repeat)	
19	US - NFPA Whoop	Sweep tone 422 Hz to 775 Hz (upwards sweep 0.85 sec.; 3 times; 1 sec. OFF; Repeat)	
20	IMO GA-Signal	Intermittent 800 Hz (1.0 sec. ON; 1.0 sec. OFF; 7 times; 2.0 sec. ON; 2.0 sec. OFF; Repeat)	

IQ8Quad detectors and IQ8Alarm tone table

Order Information: Composed Combination of Languages

Up to five languages can be provided per alarm signaling device.

Other combinations of languages can be ordered in accordance with the following order form.

The delivery time is approximately four weeks. Please note that returns or cancellations are not possible.

Order numbers for individual combination of languages

O ² T/FSp multisensor fire detector IQ8Quad with isolator, composed version	802385.SV98
IQ8Alarm/FSp signaler with isolator, red, composed version	807372.SV98
IQ8Alarm/Sp signaler with isolator, white, composed version	807322.SV98
IQ8Alarm/Sp signaler with isolator, red, composed version	807332.SV98
O ² T/Sp multisensor fire detector IQ8Quad with isolator, composed version	802386.SV98



Description:

Individual combination of languages

For example:

Phrase 1 - 5	NL_nl
Phrase 6 - 10	GB_en
Phrase 11 - 15	DE_de
Phrase 16 - 20	TR_tr
Phrase 21 - 25	RU_ru

The message type per language is always the same as mentioned in the chart

"Additional languages for individual combination":

- 1 Evacuation 1
- 2 Evacuation 2
- 3 Alarm
- 4 Test message
- 5 All-Clear

Order Information: Customized Combination of Language

In case you should need customized texts differing from the standard speech messages, additional signal tones or other languages which are not listed in the order form, please contact international sales support.

Order numbers for customized programming of specific announcements/signals

O ² T/FSp multisensor fire detector IQ8Quad with isolator, customized version	802385.SV99
IQ8Alarm/FSp signaler with isolator, red, customized version	807372.SV99
IQ8Alarm/Sp signaler with isolator, white, customized version	807322.SV99
IQ8Alarm/Sp signaler with isolator, red, customized version	807332.SV99
O ² T/Sp multisensor fire detector IQ8Quad with isolator, customized version	802386.SV99



Description:

Customer specific announcements/signals

For example:

Phrase 1 - 5	NL_nl
Phrase 6 - 10	GB_en
Phrase 11 - 15	DE_de
Phrase 16 - 20	TR_tr
Phrase 21 - 25	RU_ru
Phrase 26 - 31	Extra

(customer specific texts / special tones)

Information about delivery time and price of recording customized announcements and signals available upon request. Please note that the maximum recording time is 169 seconds. Also please note that returns or cancellations are not possible.



The programming of speech and/or tone data is carried out at the factory according to your specifications. The programming of the customer data is carried out via the tools 8000 programming software. Please take a look at the relevant instructions in the online help.

Additional Languages for Individual Combination Page 1

Country code acc. to ISO 3166 -Alpha-2	Language code acc. to ISO 639-1	Evacuation 1	Evacuation 2	Alarm	Test Message	All-Clear
SA  Arabia	ar	حريق هناك الانتباه يرجى اقرب الى التوجه الرجاء المبنى اخلاء و طواريء مخرج	- - -	في طاريء وقوع عن الايلاغ تم الانتظار يرجى المبنى ارشادات على للحصول	النظام لفحص الرسالة هذه للإزعاج ناسف	الطواريء حالة الغاء تم ازعاج اي عن نعتذر الان
BA  Bosnia	bs	Ovo je požarni alarm Molimo da odmah napustite zgradu koristeći najbliži raspoloživi izlaz.	Pažnja. Ovo je obavještenje o opasnosti. Molimo napustite zgradu koristeći najbliži raspoloživi izlaz.	U zgradi se dogodio incident. Molimo sačekajte dalja uputstva.	Ovo je poruka za ispitivanje sistema. Možete nastaviti sa vašim aktivnostima.	Opasnost je prestala. Izvinjavamo se radi eventualnih neugodnosti.
BR  Brasil	pt	Atenção. Esta é uma emergência. Por favor, abandonem o edifício pela saída de emergência mais próxima.	Isto é um alarme de incêndio. Abandonem por favor, o edifício imediatamente pela saída de emergência mais próxima	Atenção foi reportado um incidente no edifício. Aguardem, por favor, outras instruções.	Esta é uma mensagem de teste. Não se requer nenhuma ação.	A emergência foi cancelada. Pedimos desculpas pelos problemas causados
CN  China Mandarin	zh	请注意！ 请注意！ 现在发生火灾， 请保持冷静， 请尽快离开现场！	请注意！ 请注意！ 现在发生火灾， 请留意广播， 或注意现场指示！	请注意！ 现在发生紧急情况， 请等待下一步指令。	注意！ ‘紧急情况已经排除， 谢谢！	现在是系统测试， 请各位无需惊慌。
DK  Denmark	da	Brandalarmen er aktiveret forlad venligst bygningen, anvend nærmeste nødudgang.	Dette er en nødsituation, forlad bygningen brug de opmærkede flugtveje.	Et varsel om brand bliver undersøgt, afvent nærmere besked.	Dette er en test melding ingen tiltag nødvendig.	Normal tilstand er genoprettet, faren er overstået.
FI  Finland	fi	Huomio, kiinteistössä on havaittu automaattinen paloilmotus. Poistu rakennuksesta käyttäen ohjattuja reittejä. Hissien käyttö on kielletty.	Huomio, turvallisuussyistä kiinteistöstä on poistuttava välittömästi. Käytä ohjattuja reittejä.	Huomio, paloilmotin on ilmoittanut mahdollisesta vaaratilanteesta. Tutkimme asiaa ja annamme pian lisätietoja.	Paloilmotinjärjestelmää testataan.	Palohälytys on ohi. Tilanne on palautunut normaalksi.
GR  Greece	el	Αυτό είναι ένα μήνυμα συναγερμού για πυρκαγιά. Παρακαλώ εγκαταλείψτε το κτίριο αμέσως από τις εξόδους κινδύνου. Η πυροσβεστική έχει δοπονηθεί.	Προσοχή, προσοχή! Αυτό είναι ένα μήνυμα για κατάσταση κινδύνου. Παρακαλώ εγκαταλείψτε το κτίριο από τις επόμενες εξόδους.	Προσοχή στο κτίριο υπάρχει κατάσταση κινδύνου. Παρακαλώ παραμείνετε ψύχραιμοι και περιμένετε επόμενες οδηγίες.	Αυτή είναι μια δοκιμαστική ανακοίνωση.	Η κατάσταση κινδύνου έχει αρθεί. Ζητούμε συγγνώμη για τυχόν δυσάρεστες καταστάσεις που προκλήθηκαν.
ES  Catalonia	ca	Això es una alarma d'incendi. Siusplau abandonin l'edifici immediatament per la sortida d'evacuació més propera.	Atenció. Això es una emergencia. Siusplau abandonin l'edifici per la sortida d'evacuació més propera.	Atenció. S'ha notificat un incident a l'edifici. Siusplau, esperin altres instruccions.	Això es un missatge de prova. No es requereix cap acció.	L'alarma ha estat cancel.lada. Prguem disculpin les molesties.
HR  Croatia	hr	Ovo je požarni alarm. Molimo odmah napustite objekt koristeći najbliži izlaz za nuzdu. Vatrogasna postaja je alarmirana.	Pozor! Pozor! Ovo je priopćenje o neposrednoj opasnosti. Molimo odmah napustite objekt koristeći najbliži izlaz za nuzdu.	Pozor! U objektu je prijavljena opasnost. Molimo ostanite mirni i pricekajte daljnje upute.	Ovo je probno priopćenje. Nikakve mjere nisu neophodne.	Opasnost je prestala. Ispricavamo se radi eventualnih neugodnosti.
NL  Netherlands	nl	Attentie, er is een brandalarm. Verlaat het gebouw via de dichtstbijzijnde uitgang.	Attentie, er is een calamiteit. Verlaat het gebouw via de dichtstbijzijnde uitgang.	Attentie, er volgt een blussing, verlaat de ruimte.	Dit is een testalarm, dit is een testalarm.	Einde alarmmelding, einde alarmmelding.
NO  Norway	no	Brannalarmen er utløst, forlat bygget, bruk de oppmerkede rømningsveiene.	Dette -er en nødsituasjon, forlat bygget, bruk de oppmerkede rømningsveiene.	Et automatisk varsel om brann blir undersøkt, avvent nærmere beskjed.	Dette er en testmelding, ingen tiltak nødvendig.	Normaltilstand er gjenopprettet, faren er over.

Additional Languages for Individual Combination Page 2

Country code acc. to ISO 3166 -Alpha-2	Language code acc. to ISO 639-1	Evacuation 1	Evacuation 2	Alarm	Test Message	All-Clear
PL  Poland	pl	Uwaga! Wystąpił alarm pożarowy. Proszę natychmiast opuścić budynek najbliższym dostępnym wyjściem ewakuacyjnym.	Proszę o uwagę! To jest komunikat alarmowy. Proszę opuścić budynek najbliższym dostępnym wyjściem ewakuacyjnym.	Uwaga. W budynku wystąpiło zdarzenie alarmowe. Proszę spokojnie oczekiwać dalszych instrukcji.	To jest komunikat testowy. Nie są wymagane żadne działania.	Stan alarmu został odwołany. Przepraszamy za wszelkie niedogodności i utrudnienia.
PT  Portugal	pt	Isto é um alarme de incêndio. Por favor abandonem o edifício imediatamente pela saída de evacuação mais próxima.	Atenção. Isto é uma emergência. Por favor abandonem o edifício pela saída de emergência mais próxima.	Atenção, ocorreu um incidente no edifício. Por favor aguardem mais instruções.	Atenção, isto é apenas um ensaio	O alarme foi cancelado. Queiram desculpar o inconveniente.
RO  Romania	ro	Atențiune, atențiune! S-a declanșat o alarmă de incendiu. Vă rugăm părăsiți imediat clădirea pe cea mai apropiată cale de evacuare. Alarma a fost transmisă la pompieri.	Atențiune! Acesta este un mesaj de urgență. Vă rugăm părăsiți clădirea pe cea mai apropiată cale de ieșire.	Atențiune. În clădire a fost semnalat un incident. Vă rugăm să vă păstrați calmul și să așteptați noi instrucțiuni.	Situația de urgență a luat sfârșit. Ne cerem scuze pentru eventualele inconveniente.	Acesta este un mesaj de test.
RS  Serbia	sr	Ovo je požarni alarm! Molimo vas da odmah napustite zgradu koristeći najbliži raspoloživi izlaz.	Pažnja! Ovo je obaveštenje o opasnosti. Molimo vas da naпустите zgradu koristeći najbliži raspoloživi izlaz.	U zgradi se desio incident. Molimo vas da sećekate dalja uputstva.	Ovo je poruka za ispitivanje sistema. Možete nastaviti sa vašim aktivnostima.	Opasnost je prestala. Izvinjavamo se zbog eventualnih neugodnosti.
Ru  Russia	ru	Внимание. Пожарная тревога. Пожалуйста покиньте помещение через ближайшие аварийные выходы.	Внимание. Это предупреждение о пожарной опасности. Пожалуйста покиньте помещение через ближайшие выходы.	Внимание. Поступило предупреждение о пожарной опасности. Пожалуйста сохраняйте спокойствие и ждите дальнейшей информации.	Отмена пожарной тревоги. Ситуация нормализовалась. Извините за причинённые неудобства.	Тестовое сообщение. Идет проверка системы пожарной сигнализации.
Se  Sweden	sv	Brandlarmet är utlöst, lämna omedelbart byggnaden genom närmaste utgång.	Detta är en nödsituation, lämna omedelbart byggnadengenom närmaste utgång.	Larm om brand i byggnaden blir undersökt, invänta närmare besked.	Detta är ett testmeddelande, ingen åtgärd är nödvändig.	Normalt tillstånd är återupprättat, faran är över.
SK  Slovakia	sk	Toto je požárny poplach. Opusťte prosím okamžite budovu najbližším núdzovým východom!	Pozor, hrozí nebezpečenstvo. Opusťte prosím budovu najbližším núdzovým východom!	V budove bola vyhlásená pohotovosť. Počkajte prosím na ďalšie pokyny.	Toto je testovacie hlásenie. Nie je potrebné naň reagovať.	Pohotovosť bola odvolaná. Ospravedlňujeme sa za prípadné ťažkosti.
CZ  Czech Republic	cs	Toto je požární poplach. Prosím, opusťte okamžitě budovu nejbližším únikovým východem.	Pozor, hrozí nebezpečí. Prosím, opusťte budovu nejbližším únikovým východem.	V budově byla vyhlášena pohotovost. Prosím, vyčkejte dalších instrukcí.	Toto je testovací hlášení. Není třeba na něj reagovat.	Pohotovost je nyní odvolána. Omlouváme se za případné obtíže.
TR  Turkey	tr	Pohotovost je nyní odvolána. Omlouváme se za případné obtíže.	Acil bir durum var. Lütfen binayı en yakın çıkış noktasından terkedin.	Bu bir yangın uyarısıdır. Bu bir yangın uyarısıdır. Talimatlar için beklemede kalın. Talimatlar için beklemede kalın.	Yangın uyarısı test edilmektedir. Bir şey yapmanız gerekmiyor. Bir şey yapmanız gerekmiyor.	Tehlike geçmiştir. Tehlike geçmiştir. Bir şey yapmanız gerekmiyor.
HU  Hungary	hu	Tűzriadó! Kérem, azonnal hagyják el az épületet az Önökhöz legközelebb eső kijáraton!	Figyelem! Vészhelyzet! Kérem, azonnal hagyják el az épületet az Önökhöz legközelebb eső kijáraton!	Az épületben vártatlan esemény történt. További utasításig kérem várjanak!	Ez egy tesztüzenet.	Vészhelyzet törölve. Az esetleges kellemetlenségéért elnézésüket kérjük.

Order Form for IQ8 Composed Languages

Customer Data

Please fill out the following form for the registration of these data.

Company:	Customer ID:
Street:	Zip Code/City:
Contact Person:	E Mail:
Telephone:	Fax:
Order Number/Order Text:	

Order Combined Version

<input type="checkbox"/> 802385.SV98	Quantity _____
<input type="checkbox"/> 807372.SV98	Quantity _____
<input type="checkbox"/> 807322.SV98	Quantity _____
<input type="checkbox"/> 807332.SV98	Quantity _____
<input type="checkbox"/> 802386.SV98	Quantity _____

Languages

Choose max. 5 languages	Country Code acc. to Speech ISO 3166	Code acc. to ISO 639-1
<input type="checkbox"/> Arabic	SA	ar
<input type="checkbox"/> Bosnian	BA	bs
<input type="checkbox"/> Brazilian	BR	pt
<input type="checkbox"/> Chinese Mandarin	CN	zh
<input type="checkbox"/> Danish	DK	da
<input type="checkbox"/> German	DE	de
<input type="checkbox"/> English	GB	en
<input type="checkbox"/> Finnish	FI	fi
<input type="checkbox"/> French	FR	fr
<input type="checkbox"/> Greek	GR	el
<input type="checkbox"/> Dutch	NL	nl
<input type="checkbox"/> Italian	IT	it
<input type="checkbox"/> Catalan	ES	ca
<input type="checkbox"/> Croatian	HR	hr
<input type="checkbox"/> Norwegian	NO	no
<input type="checkbox"/> Polish	PL	pl
<input type="checkbox"/> Portuguese	PT	pt
<input type="checkbox"/> Romanian	RO	ro
<input type="checkbox"/> Russian	RU	ru
<input type="checkbox"/> Swedish	SE	sv
<input type="checkbox"/> Slovak	SK	sk
<input type="checkbox"/> Spanish	ES	es
<input type="checkbox"/> Czech	CZ	cs
<input type="checkbox"/> Turkish	TR	tr
<input type="checkbox"/> Hungarian	HU	hu

☐ Repeat Orders or Additions

For repeat orders or additions please give the Order No. or the serial number of the detector with special languages.

Order Number:
Serial Number:

To be filled out by Novar GmbH: Please forward to Production when filled out!
Order number: _____
Position: _____

Date/Signature

Please send to:

Novar GmbH, Dieselstraße 2
41469 Neuss, Germany

E mail: export.neuss@honeywell.com

Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
013405.10	101	018011	70	704890	189	761245	247
013590	126	018051	71	704900	183	761246	247
013601	123	043150	307	704901	183	761247	247
013603	124	045040	304	704902	183	761262	137
013604	125	050510	328	704903	183	761262.VC0	137
013605	124	057530.10	91	704904	183	761290	246
013606	125	057631	91	704910	190	761306	138
013607	126	057632	91	704911	191	761315	252
013608	124	057633	92	704912	191	761316	253
013609	123	057650.20	89	704915	190	761347	241
013610	122	057651.20	90	704917	191	761349	242
013611	126	057655	92	704950	203	761362	137
013612	126	057846	91	704951	203	761362.VC0	137
013613	127	057850	91	704952	203	761400.10	249
013616	123	057865	88	704953	203	761401.10	249
013617	123	057881	93	704954	203	761402.10	249
013618	126	057882	94	704955	203	761403	250
013619	125	057884	94	704960	201	761404.10	250
013623	124	059200	94	704961	201	761405.10	250
013624	127	059201	94	704964	201	761406	251
013625	128	060426	174	704965	202	761407	251
013626	124	060427	173	704966	202	761408	251
013629	125	060429	178	704967	202	761413	250
013631	122	060430.10	177	704975	201	761414	251
013632	125	060431	178	704980	204	761415	250
013635	133	070450	328	704981	204	761500	256
013636	133	382040	329	704982	204	761501	260
013640.10	128	583530	100	704983	204	761502	257
013645	123	701040	190	704984	204	761506	260
013650	127	704070	191	704985	204	761509	261
013651	127	704147	330	736235	31	761512	260
013652	127	704148	330	736264	31	761515	257
013653	128	704477.10	186	743212	29	761516	258
013654	124	704800	189	743245	29	761517	260
013655	128	704801.10	187	743248	30	761519	255
013656	125	704801.11	187	744027	30	761520.10	272
013660	127	704804	187	744028	30	761521.10	272
018001	70	704850	189	744029	31	761522.10	272
018002	70	704854	187	744030	30	761523.10	272
018004	70	704870	189	761162	136	761524.10	272
018006	70	704872	187	761162.F0	136	761525.10	273
018007	70	704873	188	761243	247	761526.10	273
018009	70	704874	187	761244	247	761535	274

Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
761536	274	766239	292	767033	320	781443	243
761537.10	274	766240	300	767034	320	781444	244
761542.10	273	766240.10	300	767035	320	781445	245
761546.10	275	766247	293	767036	321	781446	244
761547	275	766253	304	767037	321	781447	244
761549	273	766261	292	767038	321	781448	245
761630	205	766262	293	767153	318	781449	245
761694	206	766263	302	767510	329	781482	168
761697	207	766264	302	767800	167	781487	164
762400	256	766265	301	767813.10	313	781495	163
762401	260	766266	302	767814.10	313	781496	163
762403	258	766267	303	768317	32	781497	163
762407	258	766268	303	769070	179	781498	163
762411	261	766269	303	769080	179	781531.10.SL	266
762416	258	766303	294	769163	29	781550	169
762417	259	766304	294	769164	29	781588	161
762430	256	766305	294	769166	54	781590	161
763262.F0	137	766306	294	769803	164	781590.F0	161
763362.F0	137	766307	295	769813	179	781682	192
764730	324	766308	295	769814	179	781692	192
764731	324	766410	295	769870.20	178	781693	193
764732	324	766411	296	769871.20	179	781694	193
764733	325	766412	296	769910	192	781695	193
764734	325	766413	296	769911	192	781696	193
764735	325	766414	297	769914	29	781697	193
764736	325	766420	298	769915	30	781698	194
764737	326	766421	299	769916	192	781699	194
764744	159	766422	299	769921	190	781804	305
764745	159	766423	300	772180	205	781814	305
764752	160	767010	314	772386	101	781814.F0	306
764754	160	767011	314	772387	101	781815	306
764790	74	767012	315	772388.10	219	782103	312
764818	78	767013	315	772445	32	782302	239
764852	327	767014	315	772476	26	782303	239
764853	327	767015	316	772477	26	782304	239
764855	327	767016	316	772478	26	782306	240
764896	85	767017	316	772479	26	782307	240
765612	312	767018	317	781332	278	782308	240
765624	312	767019	317	781332.F0	278	782310	239
766225	291	767020	317	781333	278	782311	238
766226	291	767030	319	781335	69	782315	238
766237	292	767031	319	781336	69	783257.10	219
766238	292	767032	319	781337	69	783258	218

Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
783259.10	218	785101	75	788016.NL	66	798655	336
783312	240	785102	76	788023.10	66	801515.10	263
783313	240	785103	75	788030	333	801519.GB0	254
783590.F0	161	785104	77	788031	333	801521.10	263
784382.D0	27	785105	77	788033	334	801521.10.SL	264
784385	27	785107	77	788034	334	801522.10	264
784710	78	785108	76	788035	334	801522.10.SL	265
784710.CZ	78	785109	77	788036	335	801523.10	267
784710.PL	78	785112	76	788093	24	801524.10	267
784725	81	785113	77	788400	66	801525.10	267
784725.PL	81	785114	77	788401	66	801531.10	265
784726	82	785115	77	788402	66	801532.10	266
784726.PL	82	785116	77	788404	66	801533.10	268
784731	85	785117	77	788406	66	801534.10	268
784732	85	785753	71	788600	331	801535.10	268
784734	83	786000	24	788601	331	801540	270
784743	79	786001	22	788602	329	801541	270
784743.CZ	80	786100	24	788603.10	330	801542	270
784743.PL	79	786101	22	788605	330	801543.10	269
784744	83	786261	24	788606	101	801544.10	269
784753	83	786262	24	788612	220	801547	270
784754	84	786263	25	788650.10	331	801548	271
784763	98	786301	23	788651.10	331	801549	271
784764	98	786401	23	788652	329	801550	277
784766	98	786501	23	788653	65	801551	276
784830.10	130	786801	23	788654	65	801552	276
784832.10	130	786901	23	788655	214	801553	276
784833.10	130	787530	27	789300	13	801554	276
784839.10	130	787531	27	789301	13	801555	276
784840.10	96	787532	28	789302	14	801556	276
784841.10	96	788012.40	62	789303	32	801557	276
784841.F0	97	788013.40	63	789304	19	801558	276
784842	27	788013.40.PL	63	789855	164	801559	276
784842.F0	27	788013.40.RU	63	789856	164	801560	276
784843	97	788014.40	64	789860.10	33	801561	276
784844.10	97	788014.40.CZ	65	789861	33	801562	276
784847	129	788014.40.NL	65	789862.10	34	801563	277
784855	99	788014.40.PL	65	789863	34	801564	277
784856	99	788014.40.RO	65	789864	35	801565	277
784859	99	788014.40.RU	65	789866	35	801566	277
784865	97	788014.40.SK	65	796094	322	801567	277
784892	31	788015.40	65	796349	313	801600	269
785087	28	788016	66	796356.10	322	801604	269

Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
801605	270	803374	144	805580	172	807372.SV98	286
801606	274	803374.EX	157	805581	172	807372.SV99	287
801607	273	803374.EX.F0	157	805582	177	808003	12
801824	306	804382.D0	27	805583	177	808004	18
801825	307	804473.10	186	805586	173	808020	14
802171	140	804744	158	805587	165	808030	19
802171.F	140	804791	74	805588	165	808031	19
802177	141	804866.VC0	197	805589	165	808133	14
802271	141	804867	222	805590	162	808134	14
802271.F	141	804868	222	805591	162	808135	15
802271.VC0	141	804868.VC0	222	805593.10	225	808136	15
802371	142	804869	220	805593.F0.10	226	808137	15
802371.F	142	804870	221	805594.10	227	808138	15
802371.VC0	142	804880	31	805594.10.F0	228	808139	12
802373	143	804900	184	805595.10	229	808214	18
802374	144	804901	184	805595.10.F0	230	808215	18
802374.F	144	804902	184	805597	71	808216	18
802374.VC0	144	804905	185	805601.10	231	808217	19
802375	143	804906	185	805601.10.F0	232	808218	19
802379	244	804950	199	805602.10	233	808219	18
802382	149	804951	200	805602.10.F0	234	808220	20
802382.F0	149	804955	200	805603	235	808221	20
802382.VC0	150	804956	200	805604	235	808295	20
802383	149	804960	196	805605	236	808296	20
802384	150	804961	199	805683	68	808297	20
802385	152	804970	195	805684.10	68	808298	21
802385.BR	152	804971	196	806201	290	808600.230	213
802385.F0	153	804971.VC0	196	806202	290	808600.24	214
802385.N0	152	804973	197	807205	282	808610.10	215
802385.SV98	153	804973.F0	198	807206	282	808611.10	215
802385.SV99	154	804981	214	807212	288	808613.30	216
802385.SVRU	153	805550	176	807213	288	808615	216
802386	150	805551	175	807214	289	808619.10	217
802386.BR	151	805552	176	807224	285	808623	211
802386.SV98	151	805553	177	807322	283	808623.10	212
802386.SV99	151	805560	171	807322.SV98	283	808623.F0	211
802473	145	805570	169	807322.SV99	284	808624	212
803271	142	805571	165	807332	283	808626	212
803271.EX	156	805572	170	807332.SV98	284	808626.10	213
803271.EX.F0	156	805573	170	807332.SV99	284	808630.10	218
803371	143	805574	166	807372	285	809041.01	9
803371.EX	156	805576	166	807372.BR	286	809041.02	9
803371.EX.F0	156	805577	167	807372.N0	286	809041.03	9

Part Number Index

Part No.	Page	Part No.	Page	Part No.	Page
809041.08	9	FX808432	51	MX53440	117
BME2Z002	35	FX808433	51	MX53440.DP	117
FX808313	47	FX808434	52	MX53510	117
FX808314	47	FX808435	52	MX53510.DP	118
FX808322	48	FX808436	52	MX53600	118
FX808323	48	FX808437	52	MX53600.DP	118
FX808324	43	FX808438	52	MX53610	118
FX808324.19	53	FX808439	53	MX53610.DP	119
FX808324.ND	43	FX808440	54	MX53620	119
FX808325	43	FX808444	54	MX53620.DP	119
FX808328.RE	56	FX808445	47	MX53699	119
FX808330	46	FX808449	54	MX53699.DP	119
FX808331	55	FX808460	57	MX53700	120
FX808332	55	FX808461.10	57	MX53700.DP	120
FX808333	47	FX808462	57	MX53710	120
FX808340	56	MX50000	108	MX53710.DP	120
FX808341	56	MX50100	109		
FX808363	45	MX50250	109		
FX808364	46	MX50255	109		
FX808378	59	MX50260	109		
FX808379	59	MX50270	109		
FX808380	58	MX50410	110		
FX808381	59	MX51000	111		
FX808382	58	MX51100	111		
FX808383	58	MX51200	111		
FX808384	60	MX51400	111		
FX808385	60	MX51600	112		
FX808386	60	MX53000	113		
FX808387	61	MX53000.DP	113		
FX808389	61	MX53100	113		
FX808391	61	MX53100.DP	114		
FX808392	37	MX53110	114		
FX808392.F0	38	MX53110.DP	114		
FX808393	39	MX53200	114		
FX808394	40	MX53200.DP	115		
FX808394.F0	40	MX53300	115		
FX808395	41	MX53300.DP	115		
FX808396	42	MX53400	115		
FX808397	42	MX53400.DP	116		
FX808397.F0	42	MX53410	116		
FX808430.10R	51	MX53410.DP	116		
FX808430.18R	51	MX53420	116		
FX808431	51	MX53420.DP	117		

Index

Keyword	Page
A	
Adapter for DCU 2403	68
Adapter for pole 769813	172
Adapter module ADP-N3E	83
Adapter module ADP-N3EU-EDP	59
Adapter module ADP-N3S	83
Adapter module ADP-N3S-EDP	59
Adapter module ADP-PRS-232	84
Adapter module ADP-PRS-422	83
Adapter module for base 781590	164
Additional housing ZG 0 for ISDN communication modules	91
Additional housing ZG 1 for ISDN communication module	91
Additional relay 12 V DC	328
Addressable MCP, IP66	206
Adhesive, 0.5 kg can with brush-in-cap	274
Air filter	269
Alarm and monitoring module for IQ8TAM	221
Analog loop module	27
Analog loop module powered loop (PL)	27
Anchor plate DH50-AP-A	321
Anchor plate DH50-AP-M	320
Anchor plate DH50-AP-S	319
Anchor plate DH70-AP-A	321
Anchor plate DH70-AP-M	320
Anchor plate DH70-AP-S	319
Anchor plate DH70-AP-SX	319
Aspiration reducing film sheet, 2.0 mm	276
Aspiration reducing film sheet, 2.5 mm	276
Aspiration reducing film sheet, 3.0 mm	276
Aspiration reducing film sheet, 3.2 mm	276
Aspiration reducing film sheet, 3.4 mm	276
Aspiration reducing film sheet, 3.6 mm	276
Aspiration reducing film sheet, 3.8 mm	276
Aspiration reducing film sheet, 4.0 mm	276
Aspiration reducing film sheet, 4.2 mm	276
Aspiration reducing film sheet, 4.4 mm	276
Aspiration reducing film sheet, 4.6 mm	276
Aspiration reducing film sheet, 5.0 mm	276
Aspiration reducing film sheet, 5.2 mm	277
Aspiration reducing film sheet, 5.6 mm	277
Aspiration reducing film sheet, 6.0 mm	277
Aspiration reducing film sheet, 6.8 mm	277
Aspiration reducing film sheet, 7.0 mm	277
Assembly with cabinet provision	54
B	
Back-flow valve for Titanus EB	270
Banderole for aspiration reducing film for Titanus ASD	277
Base cover for IQ8Quad	165
Base module for OVP modules	326
Base with side cable entry, red	292
Base with side cable entry, white	292
Basic license for WINMAGplus USB port	122
Basic unit Titanus Pro Sens 2 EB	264

Keyword	Page
Basic unit Titanus Pro Sens 2 EB with silent fan	265
Basic unit Titanus Pro Sens EB	263
Basic unit Titanus Pro Sens EB with silent fan	264
Basic unit Titanus Top Sens 1 with silent fan	266
Basic unit Titanus Top Sens 2 EB	266
Basic unit Titanus Top Sens EB	265
Battery 12 V DC/1.2 Ah capacity	70
Battery 12 V DC/12 Ah capacity	70
Battery 12 V DC/17 Ah capacity	70
Battery 12 V DC/2.1 Ah capacity	70
Battery 12 V DC/24 Ah Capacity	70
Battery 12 V DC/38 Ah capacity	70
Battery 12 V DC/7 Ah capacity	70
Battery extension housing	13
Battery extension housing for 2 x 12 V/24 Ah	47
Battery extension housing for 4 x 12 V/12 Ah	47
Battery kit	71
C	
Cable gland for housing 764752	160
Cable gland M12 with nut	330
Cable gland M16 with nut	330
Cable power supply cascading 2.5 m	47
Carrying bag for test equipment	173
Cavity wall mounting kit for touchscreen operating unit	57
Ceiling holder for LRMX	250
Ceiling holder for LRMX, for distances from 40 to 70 cm	250
Ceiling holder for LRMX, for distances from 70 to 150 cm	250
Ceiling lead-through adapter (ABS)	273
Central remote indicator ZPA 3000, flush mounted, German	60
Central remote indicator ZPA 3000, surface mounted, German	60
Certification set for FlexES rack	54
Client license package, 10 licenses	109
Client license package, 20 licenses	109
Client license package, 5 licenses	109
CO capsule for multi-stimulus detector tester 805551	177
CO test gas for smoke detector tester 805582	177
Combined alarm device 12 V DC, red	300
Combined alarm device, 24 V DC, red, Asserta type	300
Compact unit Titanus Pro Sens EB	263
Condensate trap for aspirating smoke detectors	274
Connection link set for sensor cable	247
Connection server developers kit	126
Connection terminal for 230 V and 400 V power supply	52
Connection terminal for 4 module slots	52
Connection terminal for essernet modules	52
Connection terminal for UBext	52
Control center software CD WINMAGplus basic kit	122
Control relay for top-hat rail mounting	329

Index

Keyword	Page
Conventional MCP compact, red housing, with glass pane, IP66	196
Conventional MCP compact, small, with glass pane, red	195
Conventional MCP electronic module	184
Conventional MCP electronic module w/o snap-on function	184
Conventional MCP electronic module with 2nd microswitch	184
Conventional MCP electronic module, with 2nd micro-switch	200
Conversion kit for smoke detector tester 769870/769870.10	179
Converter RS 232 / TTY	327
Converter RS 232/RS 485	327
Converter RS232/TTY jack, version English	327
Cover for signal base 766261	293
D	
Data point package for Milestone CCTV system, 100 data points	116
Data points for ESPA terminal devices, 10 data points	119
Data points for ESSER fire detection technology, 500 data points	113
Data points for external systems, 100 data points	119
Data points for Funkwerk/Plettac, 100 data points	117
Data points for Geutebrück Reporter/Geviscope, 100 data points	116
Data points for IGIS MB/HB series, 500 data points	114
Data points for Mobotix IP camera, 100 data points	117
Data points for OPC client, 500 points	120
Data points for OPC server, 500 data points	120
Data points for TDM/ASCOM emergency call system, 100 data points	118
Data points for the RWT bus controller 925, 100 data points	119
Data points for VARIODYN D1, 100 data points	115
Data points for ZK primeWebSystems, 100 data points	118
Data points IPC - Ackermann ILC, 100 data points	115
Data points package	126
DC/DC converter 12 V/24 V DC	69
DC/DC converter output voltage 12 V DC	69
DC/DC converter output voltage 24 V DC	69
Detection point input	130
Detector base for door release system type RAS 2103	312
Detector base with relay contact for IQ8Quad	162
Detector base with relay contact for series 9000	161
Detector cover for detectors series 9x00 and/or base	164
Detector cover for detectors series 9x00 with base adapter	164
Detector cover for IQ8Quad w/o built-in alarm sounder	165

Keyword	Page
Detector cover for IQ8Quad with built-in alarm sounder	165
Detector dismounting tool for series 9000/9100/9200	164
Detector locking for series 9x00	163
Detector module 0.015 %/ m DM-TP-01L	267
Detector module 0.015 %/ m DM-TT-01L	268
Detector module 0.10 %/ m DM-TP-10L	267
Detector module 0.10 %/ m DM-TT-10L	268
Detector module 0.5 %/ m DM-TT-50L	268
Detector module 0.5 %/ m Type DM-TP-50	267
Detector removal tool	172
Device holder for Titanus EB	270
DEZ 9000 19" front panel, 6 HU, installation in a 19" housing	93
Diagnostics tool for Titanus EB	271
Display and operating unit for equipment cabinet, 7 HU	53
Display and operating unit with 5.7" display	43
Display and operating unit with 5.7" display, Danish	43
Door retainer DH50-N490-GM	316
Door retainer DH50-N490-UM	316
Door retainer DH50-N490-WM	314
Door retainer DH70-N1372-GM	316
Door retainer DH70-N1372-UM	317
Door retainer DH70-N1372-WM	314
Driver ESPA terminal devices	119
Driver ESSER intruder alarm panel 5008, 500 data points	114
Driver for ESSER fire detection technology	113
Driver for external systems	119
Driver Funkwerk/Plettac	117
Driver Geutebrück Reporter/Geviscope	115
Driver IGIS MB/HB series	114
Driver IPC - Ackermann ILC	115
Driver Milestone CCTV	116
Driver Mobotix IP camera	116
Driver OPC client	120
Driver OPC server	120
Driver Redundancy	111
Driver RWT bus controller 925	118
Driver TDM/ASCOM emergency call system	118
Driver VARIODYN D1	114
Driver ZK primeWebSystems	117
DS 6750 PSTN/IP-auto dialer	88
DS 7600 ISDN communication module with speech function	89
DS 7700 ISDN/IP communication module, with speech transmission	90
Dummy cover 19", 2 HU	30
Dummy cover 19", 3 HU	30
Dummy cover 19", 5 HU	30
Dummy cover 19", 9 HU	31
Dummy plate for heavy-duty rack PSU, 5 HU	54

E	
EMC shield for IQ8Quad detector base	171

Index

Keyword	Page
Emergency file depot, DIN A4, red, German	85
End cap (ABS) for 25 mm pipe	273
EOL module for 808623.10 (EOL-UV)	213
EOL-I terminating device	212
EOL-O terminating device	212
ESSER I-CIE 5008 interface driver	113
esserbus alarm transponder 4 IN/2 OUT	211
esserbus alarm transponder 4 IN/2 OUT, France	211
esserbus communication transponder for panel 8010	216
esserbus FSA transponder for fire doors	217
esserbus transponder 12 relays (8 bit)	215
esserbus transponder 32 LED	215
esserbus transponder FCT set 12 - 24 V	214
esserbus transponder FCT set 230 V	213
esserbus transponder for UniVario	212
esserbus transponder RZT, 24 V	218
esserbus transponder SIE for 3rd party extinguishing panels	216
essernet module 500 kBd, France	97
essernet module, 500 kBd	96
essernet module, 62.5 kBd	96
essernet repeater, 500 kBd	97
essernet repeater, 62.5 kBd	97
essernet switch	97
EX anchor plate DH70-AP-AX	321
Ex anchor plate DH70-AP-MX	320
Ex barrier for intrinsic safe detectors series IQ8Quad Ex (i)	158
Ex barrier for intrinsic safe detectors series IQ8Quad Ex (i) and 9100	159
Ex holding magnet	318
Ex signaling device DS10, 12 V DC	304
Ex sounder, 12 V DC	304
Expansion module carrier 1 for shouldered connection	51
Expansion module carrier 2 for shouldered connection	51
Explosion-proof conventional MCP, IP66	207
Extension housing for batteries with 192 detector zones	13
Extension housing for IQ8Control	32
Extension housing for package Part No. 808218	19
Extension housing for SZI 192 detector zones IQ8Control	14
Extension module carrier 1	48
Extension module carrier 2	48
Extension module with 1 additional micromodule slot	26
Extension module with 3 additional micromodule slots	26
Extension mounting loop for EOL-O	303
Extension pole	179
External power supply DCU 2403	68
Extinguishing control panel, series 4	65
Extinguishing control panel, series 4, Czech	65
Extinguishing control panel, series 4, Dutch	65
Extinguishing control panel, series 4, German	64

Keyword	Page
Extinguishing control panel, series 4, Polish	65
Extinguishing control panel, series 4, Romanian	65
Extinguishing control panel, series 4, Russian	65
Extinguishing control panel, series 4, Slovakian	65
Extinguishing panel 8010 series 4, with operating unit, Russian	63
Extinguishing panel 8010, series 4, w/o operating unit	62
Extinguishing panel 8010, series 4, with operating unit, German	63
Extinguishing panel 8010, series 4, with operating unit, Polish	63
F	
FACP ES Line for 8 zones, Dutch	9
FACP ES Line for 8 zones, English	9
FACP ES Line for 8 zones, German	9
FACP ES Line for 8 zones, Italian	9
FACP FlexES Control FX10 (10 loops)	40
FACP FlexES Control FX10 (10 loops), France	40
FACP FlexES Control FX10 (5 loops)	39
FACP FlexES Control FX18 (10 loops)	42
FACP FlexES Control FX18 (18 loops)	42
FACP FlexES Control FX18 (18 loops), France	42
FACP FlexES Control FX18 (5 loops)	41
FACP FlexES Control FX2 (2 loops)	37
FACP FlexES Control FX2 (2 loops), France	38
FACP IQ8Control C	12
FACP IQ8Control C for 19" cabinet	12
FACP IQ8Control C package 1	14
FACP IQ8Control C package 2	14
FACP IQ8Control C package 3	15
FACP IQ8Control C package 4	15
FACP IQ8Control C package 5	15
FACP IQ8Control C package with 2 slots for micromodules	14
FACP IQ8Control C package, German for Switzerland	15
FACP IQ8Control M	18
FACP IQ8Control M (1 UGA function), French	20
FACP IQ8Control M (w/o UGA), French	20
FACP IQ8Control M for 19" cabinet	18
FACP IQ8Control M for 19" cabinet (1 UGA function), French	21
FACP IQ8Control M for 19" cabinet (w/o UGA), French	20
FACP IQ8Control M for 19" cabinet, German for Switzerland	20
FACP IQ8Control M package 1	18
FACP IQ8Control M package 2	18
FACP IQ8Control M package 3	18
FACP IQ8Control M package 4	19
FACP IQ8Control M package black box	19
FACP IQ8Control M package with 4 slots for micromodules	19
FACP IQ8Control M package with 7 slots for micromodules	19
FACP IQ8Control M, German for Switzerland	20

Index

Keyword	Page
FB information and operating system, DIN A3, German	82
FB information and operating system, DIN A3, Polish	82
FB information and operating system, DIN A4, German	81
FB information and operating system, DIN A4, Polish	81
FDS connection board for transmission device	92
Field bus interface PLus	34
Filler panel front, neutral	24
Filter cartridge for air duct module 781443	244
Filter for LRS aspirating system	261
Fire brigade indicating panel FAT 3000, German	79
Fire brigade indicating panel FAT 3000-EDP protocol, German	58
Fire brigade indicating panel, Austria (FBF-A)	59
Fire brigade indicating panel, Czech	80
Fire brigade indicating panel, Polish	79
Fire brigade operating panel (FBF-Ö), Austrian	78
Fire brigade operating panel serial FBF 2003-EDP protocol RS 232, German	58
Fire brigade operating panel serial FBF 2003-EDP protocol RS 485, German	58
Fire brigade operating panel, Czech	78
Fire brigade operating panel, German	78
Fire brigade operating panel, Polish	78
Fire information and operation system, DIN A3 format, German	61
Fire information and operation system, DIN A4 format, German	60
Fire protection cabinet F30 L	335
Fire protection cabinet F30 R	334
Fire protection housing F30 LO	333
Fire protection housing F30 RO	333
Fire protection housing for wall mounting F30 L	334
Fire protection housing for wall mounting F30 R	334
Fireray 100 RV with 4 prisms	253
Fireray 50 RV with 1 prism	252
Fixed heat detector	136
Fixed heat detector (class B) IQ8Quad with isolator	141
Fixed heat detector IQ8Quad with isolator	140
Fixed heat detector IQ8Quad with isolator, France	140
Fixed heat detector, France	136
Flashing light 12 V DC, amber	294
Flashing light 12 V DC, green	295
Flashing light 12 V DC, red	294
Flashing light 24 V DC, amber	294
Flashing light 24 V DC, green	295
Flashing light 24 V DC, red	294
FlexES Guard box (unlicensed)	108
FlexES Guard Gateway	110
Flush mount base adapter for series 9x00	163
Flush mount kit for base IQ8Quad	165
Flush mount release key for automatic door release system, German	313

Keyword	Page
Flush mounted housing for LRMX	251
FO converter for essernet, multi-mode, F-SMA male	98
FO converter for essernet, multi-mode, F-ST male	98
FO converter for essernet, single-mode	98
Front foil face with universal text for large MCP ABS, black lettering	191
Front foil Titanus Pro Sens 2 EB	270
Front foil Titanus Top Sens 2 EB	271
Front foil with universal text for large MCP ABS, white lettering	191
Front foil with universal text for small MCP, white lettering	201
FSA label	322
G	
Graphics page conversion	130
Graphics page input	130
H	
Hardware option TCP/IP converter, Ethernet RS 232/RS 485	101
Heat detector UniVario	239
Heat detector UniVario, 2 m	240
Heat detector UniVario, 200 mm	239
Heat detector UniVario, 400 mm	239
Heat detector UniVario, 6 m	240
Heat detector UniVario, 600 mm	239
Heat detector UniVario, 9 m	240
Heavy-duty rack for power supply, 5 HU	51
Heavy-duty rack with software release for 10 analog loops	51
Heavy-duty rack with software release for 18 analog loops	51
Housing 800 mm, depth 42 HU, incl. mounting	54
Housing flush mount, gray	331
Housing flush mount, white	331
Housing for Ex barrier	160
Housing for small MCP, blue, similar to RAL 5015	203
Housing for small MCP, gray, similar to RAL 7035	203
Housing for small MCP, green, similar to RAL 6002	203
Housing for small MCP, orange, similar to RAL 2011	203
Housing for small MCP, red, similar to RAL 3020	203
Housing for small MCP, yellow, similar to RAL 1021	203
Housing kit	101
Housing surface mount, gray	331
Housing surface mount, white	331
Housing with glass pane, blue, similar to RAL 5015	183
Housing with glass pane, green, similar to RAL 6002	183
Housing with glass pane, orange, similar to RAL 2011	183

Index

Keyword	Page
Housing with glass pane, red, similar to RAL 3020	183
Housing with glass pane, yellow, similar to RAL 1021	183
Housing with glass, red, in compliance with EN 54-11	187
I	
Indicating and operating panel for ECP 8010, Czech	66
Indicating and operating panel for ECP 8010, English	66
Indicating and operating panel for ECP 8010, German	66
Indicating and operating panel for ECP 8010, Polish	66
Indicating and operating panel for ECP 8010, Romanian	66
Indicator and operating module LRS 110, English	260
Indicator and operating module LRS 110, French	261
Indicator and operating module LRS 110, German	260
Installation frame for transmission units and transponders	92
Interface module RS 232/V 24	101
Interface module TTY/CL 20 mA	101
IP 43 protection for detector base IQ8Quad, deep design	170
IP 43 protection for detector base IQ8Quad, flat design	169
IP 54 kit for large MCP 7048xx	191
IP43 moisture-proof surface-mounted base adapter for IQ8Quad	170
IP55 base adapter for FCT	214
IP55 kit for protective cover	194
IP65 base for IQ8Alarm, red	290
IP65 base for IQ8Alarm, white	290
IQ8 fire hydrant push button with isolator, red, China	197
IQ8Alarm/F signaler with isolator, amber flash	288
IQ8Alarm/F signaler with isolator, blue/green/white flash	288
IQ8Alarm/F signaler with isolator, red flash	289
IQ8Alarm/FSO signaler with isolator, red	285
IQ8Alarm/FSp signaler with isolator, red	285
IQ8Alarm/FSp signaler with isolator, red, Brazil	286
IQ8Alarm/FSp signaler with isolator, red, composed version	286
IQ8Alarm/FSp signaler with isolator, red, customized version	287
IQ8Alarm/FSp signaler with isolator, red, Nordic	286
IQ8Alarm/So signaler with isolator, red	282
IQ8Alarm/So signaler with isolator, white	282
IQ8Alarm/Sp signaler with isolator, red	283
IQ8Alarm/Sp signaler with isolator, red, composed version	284
IQ8Alarm/Sp signaler with isolator, red, customized version	284
IQ8Alarm/Sp signaler with isolator, white	283

Keyword	Page
IQ8Alarm/Sp signaler with isolator, white, customized version	283
IQ8FCT electronic module	214
IQ8FCT with isolator, 1 IN/1 OUT	222
IQ8MCP compact with isolator, red housing, with glass pane, China	196
IQ8MCP compact with isolator, red housing, with glass pane, IP66	199
IQ8MCP compact, small, with isolator and glass pane, red	196
IQ8MCP compact, small, with resettable element and glass pane, red	197
IQ8MCP compact, small, with resettable element and glass pane, red, France	198
IQ8MCP electronic module	200
IQ8MCP electronic module w/o isolator but with relay	185
IQ8MCP electronic module with isolator	185
IQ8MCP electronic module, w/o isolator, with relay	200
IQ8TAL with isolator, 1 IN/1 OUT	222
IQ8TAL with isolator, China	222
IQ8TAM for snap-on mounting with isolator, 1 IN	220
IQ8Wireless cover for wireless interface, red and white	236
IQ8Wireless detector base	225
IQ8Wireless detector base, France	226
IQ8Wireless gateway for devices	227
IQ8Wireless gateway for devices, France	228
IQ8Wireless mounting frame for IQ8Quad detectors, white	235
IQ8Wireless mounting frames for IQ8Alarm, red and white	235
IQ8Wireless transponder for devices, wall mount	229
IQ8Wireless transponder for devices, wall mount, France	230
IQ8Wireless universal interface w/o cover, red	231
IQ8Wireless universal interface w/o cover, red, France	232
IQ8Wireless universal interface w/o cover, white	233
IQ8Wireless universal interface w/o cover, white, France	234
IR flame detector (ex) X 9800	241
ISDN connection lead with two RJ connectors, 1.5 m	91
ISDN terminal box	91
Isolation and assembly block for safety Ex barrier	159

K

Kit DCF77 radio time module for IQ8Control and FlexES Control	31
Kit for suspended installation	168

L

Label for release key	313
Label for release push button, red	322
Label plate for detector base IQ8Quad	166
Labels-sampling points wrap round for VESDA ASD	275

Index

Keyword	Page
LaserFOCUS aspirating system, multilingual	255
LCD indicator panel for CMSI 8000, French	76
LCD indicator panel for system 800, French	76
LCD indicator panel, Czech	77
LCD indicator panel, English	75
LCD indicator panel, ESSER, Dutch	77
LCD indicator panel, French	76
LCD indicator panel, German	75
LCD indicator panel, Hungarian	77
LCD indicator panel, Italian	77
LCD indicator panel, Polish	77
LCD indicator panel, Portuguese	77
LCD indicator Panel, Romanian	77
LCD indicator panel, Spanish	77
LCD indicator panel, Turkish	77
Lever lock with 2 keys (No. 801)	29
Lever lock with 2 keys (No. 901)	30
LF-manual call point	205
License Dallmeier video	125
Linear heat detector LWM-1	246
Linear smoke detector LRMX	249
Log book for FAS (DE/GB)	336
Loop card esserbus/esserbus-PLus module	55
Loop card esserbus/esserbus-PLus module GI	55
Loop isolator for transponders	220
Loop LED remote indicator panel for 32 messages	74
LRS 100 aspirating smoke detector unit, English	256
LRS 100 aspirating smoke detector unit, German	256
LRS 100 aspirating smoke detector unit, Spanish	256
LRS 300 PC interface	260
LRS compact, French	258
LRS compact, German	257
LRS compact/EB, English	254
LRS compact/net, English	258
LRS compact/net, French	259
LRS compact/net, German	258
LRS-S 700 aspirating smoke detector unit, English	258
LRS-S 700 aspirating smoke detector unit, German	257
M	
Master box interface module	27
MCP electronic module series 9000 with second micro-switch	186
MCP electronic module series 9200 with zone isolator	186
MCP Housing ALU, red	187
MCP housing aluminum yellow, CO2 release	187
MCP housing aluminum yellow, emergency stop	188
MCP housing aluminum, blue, neutral	189
MCP housing aluminum, gray, neutral	189
MCP housing aluminum, red, neutral	189
MCP housing aluminum, yellow, neutral	189
MCP housing with glass, blue, printed: house alarm	187

Keyword	Page
MCP housing with glass, red, printed: house alarm	187
MCP housing with glass, yellow, printed: house alarm	187
MD1L transponder, France	218
MD2L transponder, France	218
MD4L transponder, France	219
Metal housing for FACP IQ8Control M and FlexES, red	32
Metal key for large MCP	192
Microfilter	269
MKS multi criteria transmitter	28
Module housing for top-hat mounting rail	330
Mounting adapter for intermediate ceilings	167
Mounting bracket for lintel installation	167
Mounting bracket for UniVario flame detectors	240
Mounting clip for 25 mm pipe	274
Mounting frame 19" for IQ8Control C/M	32
Mounting frame for small MCP, red and white	202
Mounting kit	330
Mounting plate for ceiling bracket for detector/ single reflector	251
Mounting rail for FACP	329
Mounting rail set for connection terminals	52
Mounting set for round and insulated air ducts	245
Mounting spider for ceiling bracket	251
Multi-Client Capability	111
Multi-Monitor	111
Multiple-sector interface in housing	66
Multi-stimulus detector tester TF 1001	176
Multi-stimulus detector tester TF 2001	175
N	
Nano coated reflector for LRMX	250
Nano detector cover	251
Network card essernet module 500 kBd	56
Network card essernet module 62.5 kBd	56
Network interference suppression filter type 2VK3	328
Neutral front	43
Notification	111
O	
O/So optical smoke detector IQ8Quad with isolator	149
O/So optical smoke detector IQ8Quad with isolator, China	150
O/So optical smoke detector IQ8Quad with isolator, France	149
O ² T multisensor fire detector IQ8Quad Ex (i) w/o isolator	157
O ² T multisensor fire detector IQ8Quad Ex (i) w/o isolator, France	157
O ² T multisensor fire detector IQ8Quad w/o loop isolator	144
O ² T multisensor fire detector IQ8Quad with isolator	144
O ² T multisensor fire detector IQ8Quad with isolator, China	144

Index

Keyword	Page
O ² T multisensor fire detector IQ8Quad with isolator, France	144
O ² T/F multisensor fire detector IQ8Quad with isolator	149
O ² T/FSp multisensor fire detector IQ8Quad with isolator	152
O ² T/FSp multisensor fire detector IQ8Quad with isolator, Brazil	152
O ² T/FSp multisensor fire detector IQ8Quad with isolator, composed version	153
O ² T/FSp multisensor fire detector IQ8Quad with isolator, customized version	154
O ² T/FSp multisensor fire detector IQ8Quad with isolator, France	153
O ² T/FSp multisensor fire detector IQ8Quad with isolator, Nordic	152
O ² T/FSp multisensor fire detector IQ8Quad with isolator, Russia	153
O ² T/So multisensor fire detector IQ8Quad with isolator	150
O ² T/Sp multisensor fire detector IQ8Quad with isolator	150
O ² T/Sp multisensor fire detector IQ8Quad with isolator, Brazil	151
O ² T/Sp multisensor fire detector IQ8Quad with isolator, composed version	151
O ² T/Sp multisensor fire detector IQ8Quad with isolator, customized version	151
Operating front for printer with take-up reel, German	23
Operating front with 1/4 VGA display and printer, German	23
Operating front with 1/4 VGA display and SZI 64, German	23
Operating front with 1/4 VGA display, German	23
Operating front with FBOIU, French for Switzerland	25
Operating front with FBOIU, German for Switzerland	24
Operating front with FBOIU, Italian for Switzerland	24
Operating front with printer, w/o take-up reel, German	23
Operating front with single zone indication 64, English	22
Operating front, German	22
Operating panel foil for large MCP 80490x, neutral	190
Optical alarm signaling device EN54-23, red, ceiling mounting	299
Optical alarm signaling device EN54-23, red, wall mounting	298
Optical alarm signaling device EN54-23, white, ceiling mounting	300
Optical alarm signaling device EN54-23, white, wall mounting	299
Optical alarm signaling device, amber	296
Optical alarm signaling device, blue	296
Optical alarm signaling device, green	296
Optical alarm signaling device, red	295

Keyword	Page
Optical alarm signaling device, transparent	297
Optical smoke detector	137
Optical smoke detector incl. base with relay output for BTS	138
Optical smoke detector IQ8Quad Ex (i) w/o isolator	156
Optical smoke detector IQ8Quad Ex (i) w/o isolator, France	156
Optical smoke detector IQ8Quad w/o loop isolator	143
Optical smoke detector IQ8Quad with isolator	142
Optical smoke detector IQ8Quad with isolator, China	142
Optical smoke detector IQ8Quad with isolator, France	142
Optical smoke detector, China	137
Optical smoke detector, France	137
Option – ability for customized interface rights (client-side)	127
Option – client	128
Option – DTMF control option	127
Option – escalation	127
Option - notification	127
Option – redundancy	127
Option – WEBX	127
Option control group indication and alarm counter for ECP 8010, Dutch	66
Option control group indication and alarm counter for ECP 8010, German	66
Option IP55 shrink sleeve for large MCP 80490x	191
OT multisensor fire detector IQ8Quad with isolator	143
OTblue multisensor fire detector IQ8Quad with isolator	143
OTblue-LKM multisensor fire detector IQ8Quad with isolator	244
OTG multisensor fire detector (CO) IQ8Quad with isolator	145
OVP module for analog telephone lines	325
OVP module for control outputs	325
OVP module for esserbus / esserbus-PLUS loop	325
OVP module for essernet and RS 485 interfaces	324
OVP module for ISDN telephone lines	325
OVP module for TTY interfaces and standard detector zones	324
OVP module including base support for 230 V power supply line	324
P	
Peripheral module	26
Peripheral module with 1 additional micromodule slot	26
Pipe (ABS), diameter 25 mm	272
Pipe cutter for PVC and ABS pipes	275
Plastic key for large MCP	192
Plastic spare key for small MCP	202
Plastic telescopic extension	174
Plastic telescopic rod	173
Power supply extension 24 V/12 Ah	45

Index

Keyword	Page
Power supply extension 24 V/24 Ah	46
Power supply unit (12 A/1.5 A)	312
Power supply unit (12 V/3 A)	312
Power supply/charging unit 12 V DC/7.2 Ah	91
Printer kit with paper take-up reel for IQ8Control C/M	31
Printer paper for printer 736233/736234/784892, IQ8Control C/M	31
Printer paper for printer 736259/784882, IQ8Control C/M	31
Programming software tools 8000	33
Protective cage	169
Protective cover for manual call points, English	193
Protective cover for manual call points, French	193
Protective cover for manual call points, German	193
Protective cover for manual call points, Italian	193
Protective cover for manual call points, Spanish	193
Protective kit for MCP and TAL, transparent	202
PVC detergent, 1l	274
R	
Rate-of-rise heat detector	137
Rate-of-rise heat detector IQ8Quad Ex (i) w/o isolator	156
Rate-of-rise heat detector IQ8Quad Ex (i) w/o isolator, France	156
Rate-of-rise heat detector IQ8Quad w/o loop isolator	142
Rate-of-rise heat detector IQ8Quad with isolator	141
Rate-of-rise heat detector IQ8Quad with isolator, China	141
Rate-of-rise heat detector IQ8Quad with isolator, France	141
Rate-of-rise heat detector, China	137
Rate-of-rise heat detector, France	137
Redundant control module	56
Reflector set for LRMX, for ranges of up to 100 m	249
Reflector set for LRMX, for ranges of up to 80 m	249
Refurbishment zone transponder RZT 8000 with housing, France	219
Remote indicator 12 V, solder bridge open, Netherlands	306
Remote indicator esserbus-PLus for detector series 9200 and IQ8Quad, blue	307
Remote indicator esserbus-PLus for detector series 9200 and IQ8Quad, red	306
Remote indicator for conventional detector series 9000, green, flashing	307
Remote indicator for conventional detector series 9000, red	305
Remote indicator for detector series 9000, 9200 and IQ8Quad, red	305
Remote indicator for detector series 9000, 9200 and IQ8Quad, red, France	306
Replacement air filter pads for 801544	269
Replacement filter element for 801600	270
Reset module for hat rail mounting	278
Reset module for hat rail mounting, France	278

Keyword	Page
Reset module with mounting bracket for Fireray 2000	278
Reset PCB for Titanus EB	270
Resettable element for small MCP	201
Route map housing for DIN A3 expansion, German	85
Route map housing for DIN A4 expansion, German	85
RS 232/TTY serial interface module	27
RS 232/TTY serial interface module, France	27
S	
Sensor cable, black	247
Sensor cable, black, with steel braiding	247
Sensor cable, blue	247
Serial connecting cable for 789862.10	35
Serial essernet interface (to connect VARIODYN D1)	100
Serial essernet interface EDP, bidirectional	99
Serial essernet interface EDP, unidirectional	99
Serial interface for WINMAGplus / WINMAGLite	129
Server license	109
Service key for electronic module (Part No. 80490x)	192
Service rack, 1 HU	53
Shallow base sounder, red	291
Shallow base sounder, white	291
Signal base, white	292
Single client license	109
Single reflector for LRMX	250
Sleeve (ABS) for 25 mm pipe	273
Smoke capsule for multi-stimulus detector tester 805550/51	176
Smoke detector tester	177
Smoke pellets for testing purposes	179
Software update, German, for DEZ 9000	94
Software update, German, for DEZ ISDN receiver module	94
Sound absorber for Titanus EB	269
Sounder D/U2-50 P2 12 V	293
Sounder flush mount, aluminum, design Gira system 55	303
Sounder flush mount, anthracite, design Gira System 55	303
Sounder flush mount, white, design Feller	301
Sounder flush mount, white, design Gira system 55	302
Sounder flush mount, white, design Jung AS500	302
Sounder flush mount, white, design Jung LS990	302
Sounder, red	292
Spare battery baton	178
Spare filter for VESDA aspirating smoke systems	260
Spare glass pane for MCP housings 70490x, 7048xx, 761694 and 761697	190
Spare glass pane for small MCP, EN54	201
Spare glass pane for small MCP, EN54, neutral	201
Spare glass pane red for MCP housings 7047xx and 7048xx	190

Index

Keyword	Page
Spare keys (No. 1D009)	29
Spare keys (No. 801)	29
Spare keys (No. 901)	30
Standard base UniVario	240
Standard detector base for IQ8Quad	162
Standard detector base series 9000, France	161
Standard detector base series 9x00	161
Standard detector base series 9x00, France	161
Standard LED remote indicator panel	74
Starter kit equipment PLus with programming software tools 8000	33
Suctions hose set for 25 mm pipe	273
Surface mount adapter for series 9x00	163
Surface mount base adapter for series 9x00	163
Surface mount housing for small MCP, blue, similar to RAL 5015	204
Surface mount housing for small MCP, gray, similar to RAL 7035	204
Surface mount housing for small MCP, green, similar to RAL 6002	204
Surface mount housing for small MCP, orange, similar to RAL 2011	204
Surface mount housing for small MCP, red, similar to RAL 3020	204
Surface mount housing for small MCP, yellow, similar to RAL 1021	204
Surface mount release key for automatic door release system, German	313
Surface spacer for protective cover	194
Switched-mode power supply with cylindrical plug	35
SZI front for 192 detector zones	24
T	
Telescopic rod	179
Terminal card for LF MCP 761630	205
Terminal card for panel 8010 in 19" rack, 1 m	65
Terminal card for panel 8010 in 19" rack, 2 m	65
Termination link set for sensor cable	247
Test gas for smoke detector tester 805582	177
Test gas for smoke detector testers 769870.20	179
Test head for heat detector together with battery and charger	178
Text page input	130
Three-channel infrared flame detector UniVario	238
Top-hat rail	329
Touchscreen operating unit, cavity wall mount	57
Touchscreen operating unit, surface mount	57
T-Piece (ABS) for 25 mm pipe	272
Transponder mounting plate for PSU	47
U	
Universal gateway for PC (software)	126
Upright cabinet IQ8Control	29
Upright cabinet IQ8Control incl. mounting	29
USB cable A/B for 789862.10 field bus and panel interface	34
USB programming cable for ECP 8010	35
User interface Windows authentication	112

Keyword	Page
UV flame detector UniVario	238
UV/IR flame detector (ex) X 5200	242
V	
Venturi air duct module for IQ8Quad OTblue-LKM (802379)	243
Venturi tube for IQ8Quad air duct construction set 781443, 0.6 m	244
Venturi tube for IQ8Quad air duct construction set 781443, 1.5 m	244
Venturi tube for IQ8Quad air duct construction set 781443, 2.8 m	245
VESDAnet™ connection box	260
W	
Weather protection housing for air duct construction set 781443	245
Weather protective cover for MCP housings 7047/48xx, blue	192
Weather protective cover for MCP housings 7047/48xx, red	192
WINMAG installation upgrade as of version 6	123
WINMAG license HeiTel video connection	125
WINMAG replacement dongle (USB instead of parallel)	123
WINMAG upgrade to WINMAGplus	123
WINMAGLite upgrade to WINMAGplus full version	133
WINMAGLite with USB dongle	133
WINMAGplus – 4-monitor support option	128
WINMAGplus – AutoCAD option	128
WINMAGplus - remote-access package	128
WINMAGplus control center software - subsequent upgrade	123
WINMAGplus license - access control	124
WINMAGplus license – CMSI	124
WINMAGplus license - fire detection technology	124
WINMAGplus license - Geutebrück	125
WINMAGplus license - interfacing DEZ 9000	124
WINMAGplus license - intrusion detection technology	123
WINMAGplus license – OPC client	126
WINMAGplus license – OPC server	126
WINMAGplus license - rescue route technology/escape door control	124
WINMAGplus license - RTD	124
WINMAGplus license - video technology	125
WINMAGplus license connection server	125
WINMAGplus license nurse call systems	125

TERMS AND CONDITIONS

Except as agreed in writing the following terms and conditions apply without exception to all sales by **Novar GmbH**, Dieselstr. 2, 41469 Neuss, Germany ("Novar") to Buyer.

1. SOLE TERMS.

Novar's sale is expressly limited to the terms herein. Any additional or different terms or conditions on Buyer's purchase order or any other instrument, agreement, or understanding are deemed to be material alterations and are rejected and not binding upon Novar. Novar's acceptance of Buyer's purchase order is expressly conditional upon Buyer's assent to the terms and conditions contained herein in their entirety. Buyer's acceptance of delivery from Novar constitutes Buyer's acceptance of these terms and conditions in their entirety.

2. QUOTE/ PRICES.

a) Information in any quotations and in attached drawings and illustrations about the goods, their measurements and weights are only approximate unless they are expressly stated as being binding.

b) Content and scope of the supply are determined exclusively on the basis of Novar's written quotation and order confirmation.

c) Novar's quotations are subject to change until accepted by the Buyer. If an offer is stated as being binding, it shall be binding for 3 months from its date of issue.

d) Novar reserves the right to make technical changes to construction, form and material of good - also during the delivery time - providing these changes are reasonably acceptable to Buyer. If agreed by the parties, changes to goods or services to be supplied, Novar is entitled to claim additional costs with immediate effect and is not obliged to perform the contract until Buyer agrees to make such payments.

e) Buyer must request shipment of the entire quantity of goods ordered within 12 months from date of order; otherwise, Novar's standard prices at time of shipment may, at Novar's option, apply to those quantities actually delivered, even if already invoiced.

f) Unless specifically agreed in writing prices for goods do not include the cost of packaging, or services such as installation, start-up, commissioning or maintenance. If Novar has expressly agreed to ship goods, shipment costs will be as per the quote or if none mentioned the relevant catalog.

g) All tooling, designs, drawings, and other intellectual property produced or delivered hereunder are owned by Novar.

3. PAYMENT.

a) Unless otherwise expressly agreed in writing, all payments are to be in EUROS and are due net in Novar's account within 30 days from date of invoice.

b) All bank charges in connection with any payment shall be paid by Buyer. Checks and/or bills of exchange will only be accepted in payment's stead and in accordance with a special written agreement. They are deemed as payment only when they have been cashed in.

c) Novar at all times reserves the right to evaluate Buyer's credit standing and if Buyer fails to qualify for credit under Novar's criteria, Novar may modify or withdraw credit terms without notice and require guarantees, security or payment in advance for further deliveries of goods. If these are not provided within a reasonable period following a notice, Novar may rescind the contract and/or claim costs, losses or damages.

d) Invoices remaining unpaid after their due date will be subject to an interest charge of 8%-points above the respective base rate published by the German Federal Bank per year, unless buyer is not responsible for the default. Buyer will pay all costs necessary for collection of unpaid amounts, including attorneys' fees, unless Buyer is not responsible for the default.

4. DELIVERY, EXAMINATION, RETENTION OF TITLE, COOPERATION.

a) All delivery dates are estimates unless agreed otherwise by Novar in writing.

b) Novar may make deliveries under any order in one or more shipments, to the extent that this is reasonably acceptable to Buyer, and may issue separate invoices.

c) Any fixed dates for deliveries agreed in writing are conditional upon the timely provision of all documents by the Buyer, any required authorizations and approvals, in particular of plans and the provision of all necessary information. If these requirements are not fulfilled in a timely manner, the fixed dates will be extended accordingly. This does not apply if Novar is responsible for the delay.

d) Novar may demand an appropriate extension of the delivery date in the event of subsequent changes agreed.

e) Delivery terms for goods are EX-WORKS (Incoterms 2000) Novar with all risk of loss or damage to goods passing to Buyer upon delivery to carrier.

f) Buyer must inspect all goods upon delivery without undue delay and must report i) obvious defects, transport damages, discrepancies and shortages without undue delay, and in no event later than 10 days after delivery, (ii) hidden defects without undue delay, and in no event later than 10 days after detection in writing to Novar. Otherwise all goods will be deemed delivered and accepted, unless Novar fraudulently neglected to disclose such faults. Buyer will return to Novar any goods that are rejected at its own expense. In the event Buyer refuses to accept delivery, Buyer shall be liable for increased costs incurred by Novar in accordance with section 7c).

g) Novar shall retain title in all goods delivered by Novar until payment has been made in full. In the event Buyer has credit with Novar, retention of title shall serve as security for any balance due to Novar.

h) Until title in the goods is transferred to Buyer, Buyer shall treat the goods with care; in particular it shall insure them sufficiently against fire, water and theft at reinstatement value at its own cost.

i) In the event of seizure or any other measure taken by third parties in relation to the goods, Buyer shall notify Novar in writing without undue delay so that Novar can initiate legal proceedings pursuant to § 771 of the German Code of Civil Procedure in order to prevent execution of any court order. If the third party is unable to reimburse the costs incurred in court and out of court of a claim pursuant to § 771 of the German Code of Civil Procedure, Buyer is liable for the damages incurred hereby.

j) Any processing of or alteration to the goods carried out by Buyer shall always be carried out for Novar. If the goods are processed using other items, which do not belong to Novar, Novar shall acquire co-ownership of the new item in the ratio of the value of the object delivered to the other processed items at the time of processing.

k) If the goods are irreversibly mixed using other items, which do not belong to Novar, Novar shall acquire co-ownership of the new item in the ratio of the value of the object delivered to the other mixed items at the time of mixing. If the mixing process takes place in such a way that Buyer's item must be regarded as the principal item the parties shall be deemed to have agreed that Buyer shall transfer shared title to Novar pro rata.

(l) Should Buyer sell the goods delivered - whether processed or not - in due course of business, it hereby assigns any claims from selling the goods with all ancillary rights vis-a-vis its customer to Novar.

(m) On good cause Buyer is obliged, if requested by Novar, to inform Novar of any assignment to a third-party purchaser and to give Novar all information required for the assertion of its rights and to hand over any documents.

(n) Should the realizable value of Novar's security exceed the debt claim to be secured by more than 10 % Novar shall release part of the security - at its discretion - at the request of Buyer.

(o) Buyer shall make available in time all equipment and grant access to all facilities which Novar may require to perform any services.

5. TAXES.

The amount of any and all applicable taxes will be added to the price and paid by Buyer, unless Buyer has provided Novar with exemption certificates acceptable to the taxing authorities.

6. FORCE MAJEURE, DELAY.

a) Novar is not liable for any delay in production or delivery of goods if due to a force majeure event, which includes, among other things, shortages or inability to obtain materials or components, or refusals to grant an export license or the suspension or revocation thereof, or any other acts of any government that would limit Novar's ability to perform, fire, earthquake, flood, severe weather conditions, or any other acts of God, quarantines, epidemics, pandemics, or other regional medical crisis, labor strikes or lockouts, riots, strife, insurrection, civil disobedience, armed conflict, terrorism or war (or imminent threat of same), or any other cause whatsoever beyond Novar's reasonable control.

b) If the force majeure event continues for longer than 90 days, either party may terminate Buyer's purchase order. If Buyer terminates the order, Buyer will pay Novar for work performed prior to termination and all reasonable expenses incurred by Novar prior to termination. In the event of delays in delivery or performance caused by force majeure or Buyer, the date of delivery or performance shall be extended by the period of time Novar is actually delayed or as mutually agreed. Any claims for damages, costs or losses howsoever construed shall be excluded.

c) If, for reasons other than the foregoing, Novar should default or delay or not deliver goods, Buyer's sole remedy against Novar is an option to cancel Buyer's purchase order, through prior written notice to Novar. In as far as Buyer incurs damages due to a delivery delay, Novar's liability is limited to 0.5% of the order value of the delayed delivery per week up to a maximum amount of 5% of the order value of the delayed delivery. Buyer is only entitled to claim damages in lieu of performance in accordance with section 11 (limitation of liability).

7. TERMINATION, RETURN OF GOODS.

a) Buyer may not terminate or cancel a purchase order without Novar's prior written consent. Goods scheduled for shipment within 30 days cannot be rescheduled. Goods scheduled for shipment between 30 and 60 days may be rescheduled with Novar's prior written consent and if rescheduled beyond 60 days that quantity may not be further rescheduled. Buyer is nonetheless liable for termination charges, which may include i) a price adjustment based on the quantity of goods delivered, (ii) all costs, direct and indirect, incurred and committed for Buyer's terminated purchase order, (iii) the full cost of all unique materials required for custom goods, and (iv) a pro-rata compensation covering the prorated expenses and anticipated profits consistent with industry standards.

b) Novar may terminate a Buyer's purchase order in whole or in part upon Buyer's breach of these terms and conditions or Buyer's bankruptcy, insolvency, dissolution, or receivership proceedings without any further liability.

c) Returns of goods are only accepted in their original packed and sealed condition within six months after shipment. Software, customized products and products in opened packaging, lacquered and non-reusable parts cannot be returned. Goods can only be returned with an authorization number (RMA) obtained from Novar in advance of shipment to Novar. The RMA is specific to the relevant goods and quantity. Novar reserves the right to i) reject any return of other goods than specific to the RMA or (ii) charge an additional 25 € per return. In case of accepted returns, the purchase price shall be repaid with a deduction of up to 20% for processing, testing, administration and other overheads. The minimum charge for returns is 80.00 € per invoice. This does not affect the purchaser's rights under the product warranty. If the Purchaser withdraws from the Contract and is not entitled to do so, or if the Purchaser refuses to accept the delivery and is unjustified in doing so, the Seller is entitled to 15% of the agreed price as liquidated damages, unless the Purchaser proves that the Seller has not suffered any damage or to a lesser extent reserves the right to claim further damages.

8. INFRINGEMENT INDEMNIFICATION.

a) Novar agrees to i) defend or settle any claim, suit, or proceeding brought against Buyer based solely upon a claim that any goods manufactured and provided solely by Novar hereunder directly infringe any third party German patent, copyright, or maskwork, and (ii) to pay costs and damages finally awarded to the third party, provided that: i) Novar is notified promptly in writing of such claim, ii) Novar is provided sole control of such defense or settlement using counsel of Novar's choice, and ii) Buyer provides Novar with all available information and assistance. Because Novar has exclusive control over resolving infringement claims hereunder, in no event will Novar be liable for Buyer's attorneys' fees, if any.

b) Novar shall not be responsible for any settlement or compromise of any such third party claim made without Novar's written consent. Novar has no obligation and this Section 8 will not apply to any claim of infringement of any intellectual property right of a third party i) by goods not in Novar's catalog or goods developed pursuant to Buyer's direction, design, process, or specification, (ii) by the combination of any goods with other elements if such infringement could have been avoided but for such combination, (iii) by goods that have been modified if such infringement would have been avoided by the unmodified goods, (iv) by goods not used for their ordinary purpose, or (v) by software if such software is other than the latest version of the software released by Novar and provided to Buyer. Buyer agrees to defend, indemnify, and hold harmless Novar from and against any claims, suits, or proceedings whatsoever arising from such exclusions identified in this Section 8b), unless this is not caused by Buyer's failure.

c) At any time after a claim has been made or Novar believes is likely to be made, or a court of competent jurisdiction enters an injunction from which no appeal can be taken, Novar has at its option the discretion to i) procure for Buyer the right to continue using such goods, (ii) replace or modify such goods in a way that it does not further infringe any third party intellectual property rights and without affecting the functionality of said goods. In the event Novar fails to do so within a reasonable time limit to be set by Buyer, Novar shall accept the return of such goods and refund the purchase price less 20% annual depreciation from shipment date.

d) The foregoing states Buyer's exclusive remedy for any actual or alleged infringement of intellectual property rights. Buyer is only entitled to claim damages subject to section 11 (limitation of liability).

9. SOFTWARE.

The use of software, if provided separately or installed on a good supplied, is governed by the following terms unless a software license agreement is included with such software.

b) Subject to Buyer's compliance with these terms and conditions, Novar grants to Buyer a personal, limited, nonexclusive license to use the object code of the software solely for Buyer's internal purposes. The license is limited to such kinds of goods as are specified on Buyer's purchase order, quotation or acknowledgment. No other use is permitted.

c) Novar retains for itself (or, if applicable, its suppliers) all title and ownership to any software delivered hereunder, all of which contains confidential and proprietary information and which ownership includes, without limitation, all rights in patents, copyrights, trademarks, and trade secrets.

d) Buyer shall not attempt any transfer without prior written consent of Novar, sublicense, or redistribution of the software except as expressly permitted herein. Buyer is entitled to copy the software in as far as necessary for the contractual purpose. Buyer is entitled to make back-up copies in as far as necessary. Furthermore Buyer shall not disclose, distribute, or display any such software, or otherwise make it available to others (except as Novar authorizes in writing) or allow any unauthorized use of the software. Buyer is only entitled to reverse compile the software within the scope of § 69e UrhG. Buyer is only entitled to modify, upgrade or alter the software in any other way within the scope of § 69c UrhG.

e) Novar may terminate this license if Buyer breaches fundamental provisions under these terms and conditions. If the software is delivered with a good, Buyer may only transfer its license of the software to a third party in conjunction with the sale by Buyer of the good on which the software is installed.

10. WARRANTY.

a) To the extent permitted by law Novar shall only be liable in accordance with the following warranty conditions, which replace any other warranties or guarantees. Any other claim shall be excluded. In particular (unless otherwise agreed in writing) Novar does not warrant the fitness of the product for any specific use which would not be the use for which the product was designed by its manufacturer.

b) Except as otherwise expressly provided herein, Novar warrants goods in all material respects to be free of defective materials and faulty workmanship and as conforming to applicable specifications and/or drawings. Unless otherwise agreed in writing commencing with Novar's date of shipment, the warranty period shall run for 12 months. Warranty for spare parts is limited to 12 months from delivery.

c) Non-complying goods returned to Novar in accordance with Section 4 f) will be repaired or replaced, at Novar's option, and return-shipped at the lowest cost, transportation prepaid. The costs of transportation to Novar have to be borne by Buyer. In the event Novar fails to repair or replace the non-complying good within a reasonable time limit set by Buyer, Novar shall accept the return of such goods and refund the purchase price less 20% annual depreciation from shipment date. The foregoing states Buyer's exclusive remedy in case of defects. Buyer is only entitled to claim damages subject to section 11 (limitation of liability).

d) If so requested by Novar, the Buyer shall give Novar sufficient opportunity to verify any fault, in particular to provide faulty goods and their packaging to Novar for inspection. If the Buyer refuses, Novar shall not be liable for such defects. No goods will be accepted for return without an authorization number obtained in advance of shipment to Novar.

e) Goods subject to wear and tear or burnout through usage shall not be deemed defective because of such wear and tear or burnout. No warranty shall apply if the defect or damage was caused by or related to installation, combination with other parts and/or products, modification to or repair of any goods other than by Novar, or resulted from Buyer's acts, omissions, misuse, or negligence.

f) Repaired or replaced goods shall be warranted for the remainder of the unused warranty term or for 90 days from shipment, whichever is longer.

g) It is Buyer's responsibility to ensure that the goods are fit for the application in which they are used.

h) Software, if supplied separately or installed on goods supplied, and warranted by Novar, will be furnished on a medium that is free of defect in materials or workmanship under normal use for so long as the hardware and/or system is under warranty. During this period, Buyer has the rights listed in section 10 c) with regard to any defects of the software. Unless stipulated otherwise in a separate software license agreement no further warranty is given in respect of software.

i) If Novar provides any services to the Buyer, including but not limited to training or assistance with configuration and installation of the goods, Novar shall provide such services in accordance with normal industry practice at such rates as may be specified by Novar in its price list from time to time. In case of non-conformance which Novar has been notified of correctly and promptly, Novar will repeat services and/or correct accordingly. To the extent permitted by law Novar accepts no liability to the Buyer arising out of the provision of such services.

j) Novar does not represent or warrant that the goods may not be compromised or circumvented or that the goods will prevent any personal injury or property loss, burglary, robbery, fire or otherwise, or that the goods will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained alarm may only reduce the risk of burglary, robbery, fire or other events occurring without providing an alarm, but it is not an insurance or guarantee that such will not occur or that there will be no personal injury or property loss as a result.

k) These warranties are for the benefit of the Buyer only and are not assignable or transferable.

l) Subject to appropriate storage and handling according to the manual Novar grants a guarantee of durability (in the meaning of §443 II German Civil Code) for 24 months from delivery date to the customer. Excluded are device software, consumables and spare parts. At Novar's discretion the product will either be replaced or repaired. Defects which occur within the guarantee period must be reported in writing immediately on detection or if earlier when it should have been recognized.

11. LIMITATION OF LIABILITY.

a) Novar is liable for intent and gross negligence on its part, on the part of its legal representatives and vicarious agents. If Novar has not acted intentionally Novar's liability is restricted to typical, foreseeable damage.

b) Novar shall also be liable in the event of negligent injury to life, body and health caused by Novar, its legal representatives or vicarious agents and in the event of willful failure to disclose a defect. Where a guarantee is provided by Novar, then the extent of Novar's liability is to be determined pursuant to the guarantee declaration.

c) Novar shall also be liable for the negligent failure to comply with any of its obligations that are fundamental to the purpose of the agreement. If Novar has not acted intentionally Novar's liability is restricted to typical, foreseeable damage.

d) Additionally Novar shall be liable in cases of mandatory statutory liability, for example pursuant to the Product Liability Act.

e) Buyer shall indemnify Novar against any claims, damages, losses, costs and expenses incurred by Novar as a result of either claims made against Novar by third parties arising out of the combination or use of the goods with any incompatible ancillary products that may be connected to the goods or any other matter for which Novar would not be liable to Buyer under these terms and conditions.

f) Other than stated herein any liability of Novar is excluded, regardless of the theory of liability, whether based in contract, tort, indemnity or otherwise.

g) Buyer shall notify and consult with Novar without undue delay and comprehensively if it intends to take legal recourse in accordance with the afore-mentioned provision. Buyer has to allow Novar to investigate and examine the damages.

12. RECOMMENDATIONS.

Any recommendations or assistance provided by Novar concerning the use, design, application, or operation of the goods shall not be construed as representations or warranties of any kind, express or implied, and such information is accepted by Buyer at Buyer's own risk and without any obligation or liability to Novar. It is the Buyer's sole responsibility to determine the suitability of the goods for use in the Buyer's application(s). Other than in cases of statutory obligations the failure by Novar to make recommendations or provide assistance shall not give rise to any liability to Novar.

13. LAWS.

a) Buyer will comply with all applicable laws, regulations, and ordinances of any governmental authority in any country having proper jurisdiction, including, without limitation, those laws of the United States or other countries that regulate the import or export of the goods provided by Novar and shall obtain all necessary import/export licenses in connection with any subsequent import, export, re-export, transfer, and use of all goods, technology, and software purchased, licensed, and received from Novar.

b) Buyer shall not sell, transfer, export or re-export any Goods or Software for use in activities which involve the design, development, production, use or stockpiling of nuclear, chemical or biological weapons or missiles, nor use the Goods or Software in any facility which engages in activities relating to such weapons or missiles. In addition, the Goods or Software may not be used in connection with any activity involving nuclear fission or fusion, or any use or handling of any nuclear material until Buyer, at no expense to Novar, has insurance coverage, indemnities, and waivers of liability, recourse and subrogation, acceptable to Novar and adequate in Novar's opinion to protect Novar against any type of liability.

c) Goods and services delivered by Novar hereunder will be produced and supplied in compliance with all applicable laws and regulations in the Federal Republic of Germany. Buyer confirms that it will ensure that all goods are properly installed and used in accordance with the applicable safety at work laws and regulations, and Buyer will indemnify Novar in respect of any costs, claims, actions or liability arising out of that Act, or otherwise arising out of the supply by Buyer or use by others of the goods, unless this is not caused by Buyer's failure.

14. PRECLUSION AGAINST SETOFF.

Buyer is only entitled to set off any amount against any amount due or to become due from Novar to Buyer or its affiliates that are undisputed or final absolute.

15. WEEE.

a) Prices do not include the costs of recycling goods covered by the European WEEE Directive 2002/96/EC and such costs may be added to the prices quoted.

b) Unless a charge has been made therefore under section 15 a) above, if the provisions of the WEEE Directive 2002/96/EC as implemented in any local jurisdiction apply to goods, the financing and organization of the disposal of waste electrical and electronic equipment are with the exception of goods which are b2c as per Novar catalog the responsibility of the Buyer who herewith accepts this responsibility, and Buyer will indemnify Novar in respect of all such liabilities. The Buyer will handle the collection, processing and recycling of the goods in accordance with all applicable laws and regulations, and shall pass on this obligation to the final user of the goods. Failure by the Buyer to comply with these obligations may lead to the application of criminal sanctions in accordance with local laws and regulations.

16. APPLICABLE LAW.

These terms and conditions are subject to the Laws of the Federal Republic of Germany. These terms and conditions are excluded from the United Nations Convention on Contracts for the International Sale of Goods, 1980, and any successor thereto. The competent court at the seat of Novar will have exclusive jurisdiction to adjudicate any dispute related to these terms and conditions.

17. INDEMNIFICATION.

Buyer shall indemnify Novar for all costs and damages, including attorneys' fees, suffered by Novar as a result of Buyer's culpable actual or threatened breach of these terms and conditions.

18. MISCELLANEOUS.

a) The parties may exchange confidential information during the performance or fulfillment of any supply. All confidential information shall remain the property of the disclosing party and shall be kept confidential by the receiving party for a period of 10 years following the date of disclosure. These obligations shall not apply to information which is: (i) publicly known at the time of disclosure or becomes publicly known through no fault of recipient, (ii) known to recipient at the time of disclosure through no wrongful act of recipient, (iii) received by recipient from a third party without restrictions similar to those in this section, or (iv) independently developed by recipient. Each party shall retain ownership of its confidential information, including without limitation all rights in patents, copyrights, trademarks and trade secrets. A recipient of confidential information may not disclose such confidential information without the prior written consent of the disclosing party, provided that Novar may disclose confidential information to its affiliated companies in the sense of §§15ff AktG, and its and their employees, officers, consultants, agents, and contractors.

b) These terms and conditions (including those agreed separately in writing) constitute the entire agreement of Novar and Buyer, superseding all prior agreements or understandings, written or oral, and cannot be amended except by a mutually executed writing.

c) Buyer may not assign any rights or duties hereunder without Novar's written prior consent. Novar may subcontract its obligations hereunder without Buyer's consent. No representation, warranty, course of dealing, or trade usage not contained or expressly set forth herein will be binding on Novar.

d) Headings and captions are for convenience of reference only and do not alter the meaning or interpretation of these terms and conditions.

e) No failure by Novar to enforce at any time for any period the provisions hereof shall be construed as a waiver of such provision or of the right of Novar to enforce thereafter each and every provision.

f) In the event any provision herein is determined to be illegal, invalid, or unenforceable, the validity and enforceability of the remaining provisions shall not be affected and, in lieu of such provision, a provision as similar in terms as may be legal, valid, and enforceable shall be added hereto.

g) Provisions herein which by their very nature are intended to survive termination, cancellation, or completion of supply shall survive such termination, cancellation, or completion.

h) All stenographic and clerical errors are subject to correction. i) These terms and conditions shall confer no benefit on any third party.

19. LANGUAGE

The German language version of these terms and conditions will prevail in case of conflict with any translations provided for convenience purposes.

Neuss, November 2012

Novar GmbH a Honeywell Company

Dieselstr. 2, 41469 Neuss, Germany

Phone: +49 2131 40615-600

Fax: +49 2131 40615-286

www.esser-systems.com

info@esser-systems.com

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