



Product catalog EE  
Valid from June 2017

# **Fire Alarm Systems**

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## Abbreviations

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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 institute for technical approvals	LKM	= air duct detector
DIL	= dual in line	LPCB	= Loss Prevention Certification Board
DIN	= German institute 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	= ultraviolet
		VDE	= association for electrical, electronic and information technologies
		VdS	= association of German property insurance companies
		VGA	= video graphics array
		VPP	= voltage peak-peak

## 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)

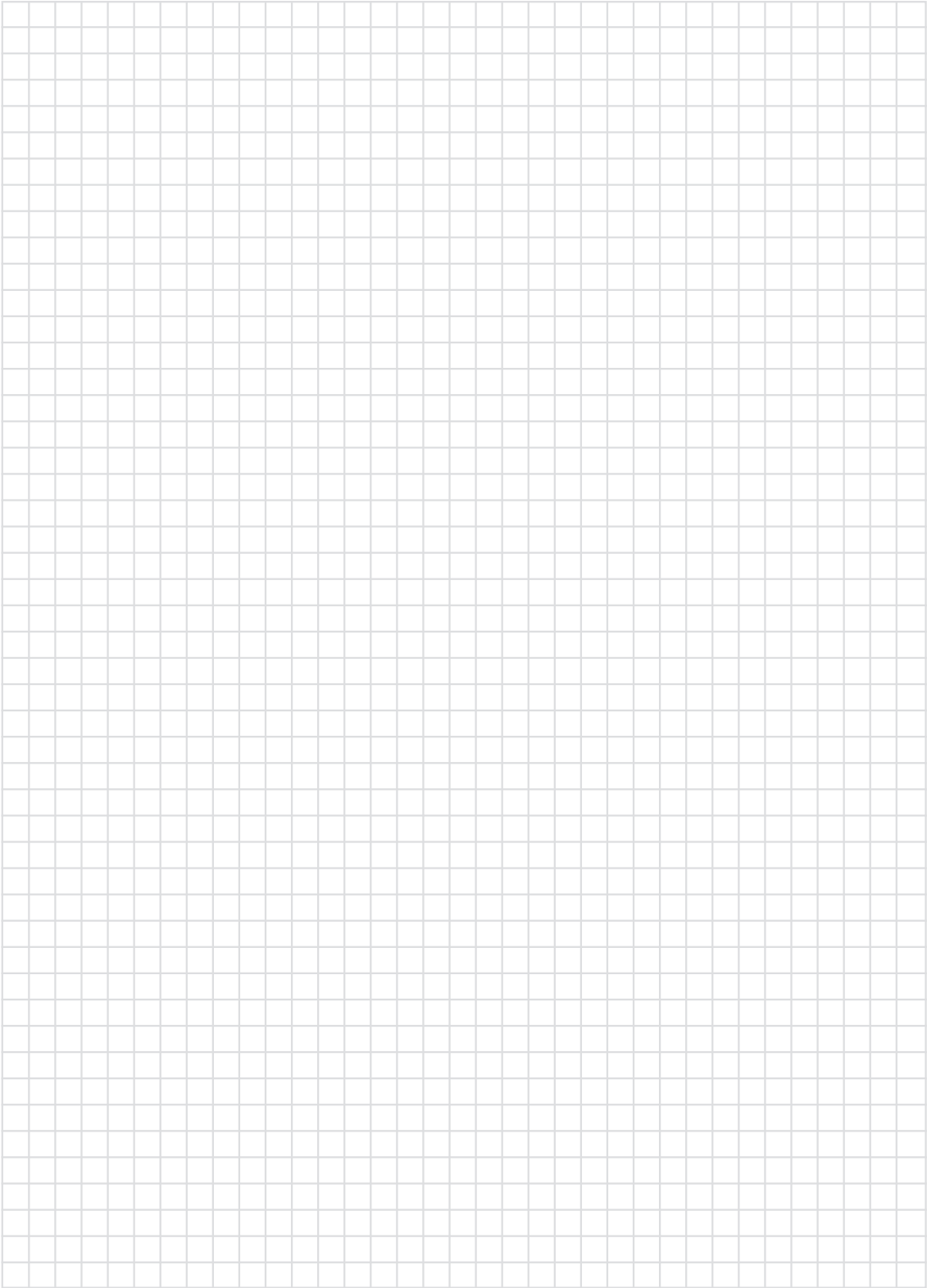
Digit	Protection from contact	Protection from foreign bodies
0	No protection	No protection
1	Protection from large-sized body parts (diameter 50 mm)	Large foreign bodies (diameter from 50 mm)
2	Finger protection (diameter 12 mm)	Medium-size foreign bodies (diameter from 12.5 mm)
3	Tools and wires (diameter 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

IQ8Control  
Extinguishing System

8-24  
25-28

## IQ8Control C/Intelligent Addressable

### Features

- Max. two micromodules (system supports up to 254 digital loop addresses in total)
- 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/wireless transponders per loop
- Up to 127 IQ8/FCT transponders per loop
- 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 interface, optional RS 232
- 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
- Large LCD display with 8 rows x 40 characters
- 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 (System supports up to 254 digital loop addresses in total)
- 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 certificate: 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.

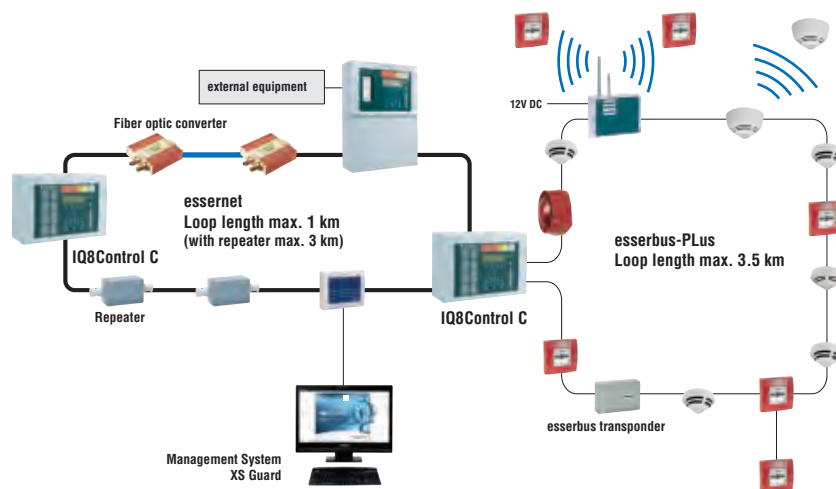
### Technical Data

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	max. 2 A @ 12 V DC
Battery capacity	2 x 12 Ah, 2 x 26 Ah in extension housing
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-5 °C ... 50 °C
Air humidity	< 95 % (non-condensing)
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
Declaration of Performance	DoP-20827130701



- 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

5.  
Choice of a  
extension housing  
(optional)



IQ8ControlC standard housing 808003



IQ8ControlC 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



771670  
Master box interface  
module



784840.10  
essernet module 62.5kBd



787531  
3-relay module



784842  
RS 232/TTY  
serial interface module



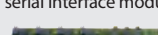
784385  
Master box interface  
module



784841.10  
essernet module 500kBd



787532  
3-relay  
common fault module



787530  
4-relay 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



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

## FACP IQ8Control C Standard and for 19" Racks

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**808003**

### FACP IQ8Control C

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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" rack

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Same as 808003, but 19" version (7 HU) for rack 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

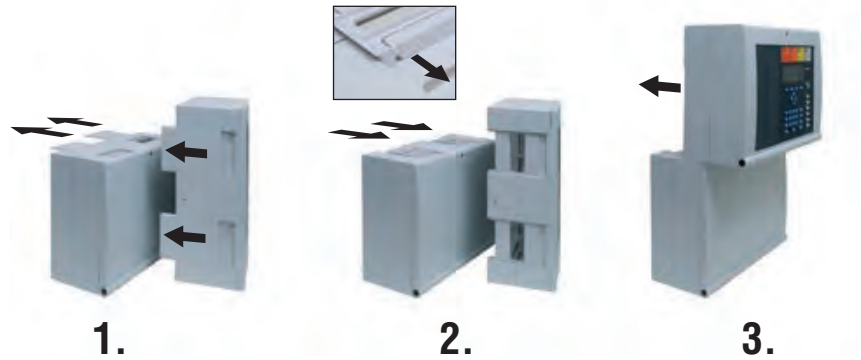


Batteries are not included and must be ordered separately.



Housing complete with battery rear panel, connecting cable for battery, mounting positions for two 12 V / 26 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 / 26 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.

## IQ8Control M/Intelligent Addressable

### Features

- Max. five micromodules, with peripheral module Part No. 772477, up to five esserbus analog loop modules (system supports up to 635 digital loop addresses in total)
- Max. seven micromodules, with extension module Part No. 772476, up to seven esserbus analog loop modules (system supports up to 889 digital loop addresses in total)
- 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/wireless transponders per loop
- Up to 127 IQ8/FCT transponders per loop
- 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
- Large LCD display with 8 rows x 40 characters
- 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 127 loop devices (per loop) in mixed mode / loop powered and non-loop powered (system supports up to 762 digital loop addresses in total)
- esserbus PPlus (Powered Loop) 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 certificate: 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.

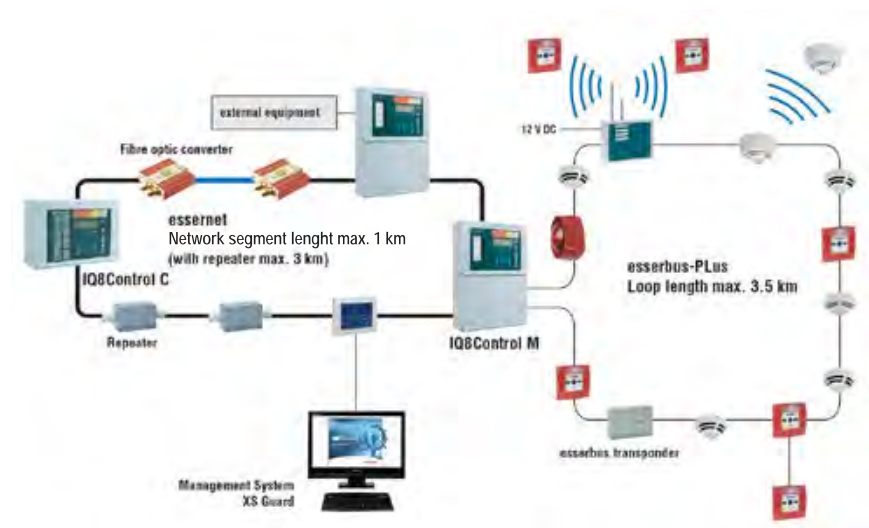
Depending on which loop operation type has been selected, the corresponding analog module/modules should be used.

### 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	max. 2 A @ 12 V DC
Battery capacity	max. 2 x 12 V/26 Ah
Ambient temperature	-5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Air humidity	< 95 % (non-condensing)
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
Declaration of Performance	DoP-20827130701

- 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\*

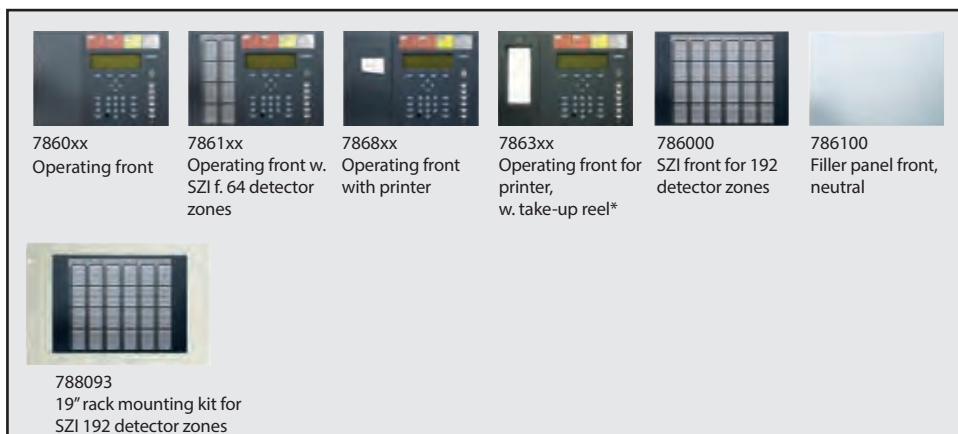
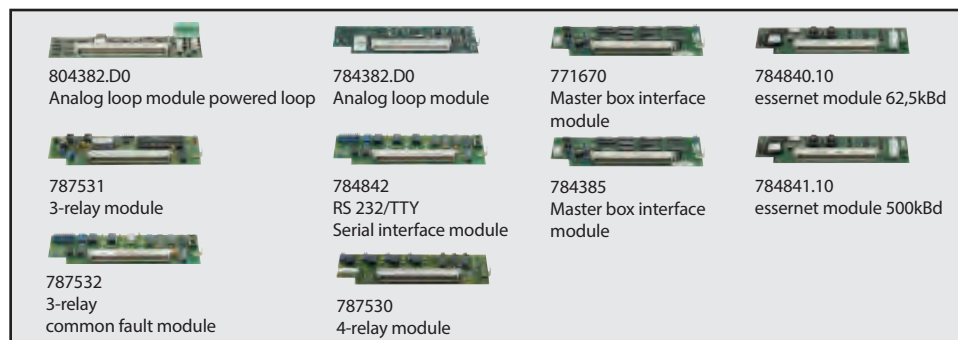
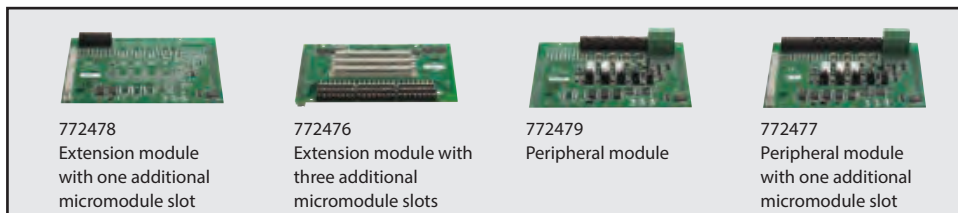
language codes available:

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

5.  
Choice of a  
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



## 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, neutral front, interface board, power supply module and system software.

808219

## FACP IQ8Control M for 19" rack



As 808004 but 19" version (7 HU) for rack 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.

789303

## Extension housing



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

## Features

- For the installation of up to 6 transponders and FO converters with installation kit 788650.

## 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



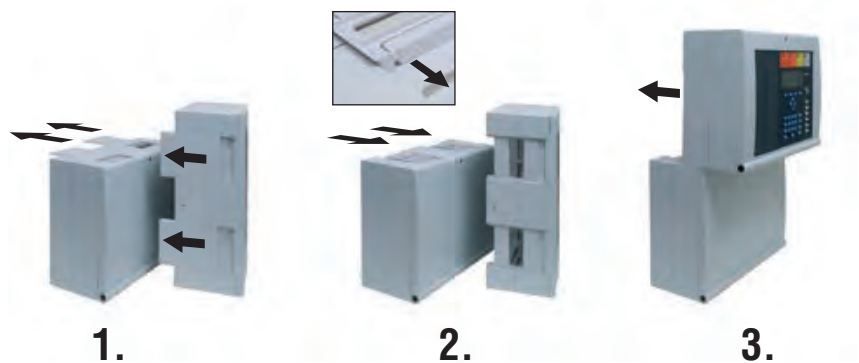
Housing complete with standard rear panel, neutral front and material for attaching to the existing control panel housing.

## 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.



Connection between the central housing and the extension housing

## Operating Fronts for IQ8Control C/M

### Features

- alphanumerical display
- Large LCD display with 8 rows x 40 characters

ESSER - front (Part No. 7860XX, 7861XX, 7863XX, 7864XX, 7865XX, 7868XX and 7869XX) 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.

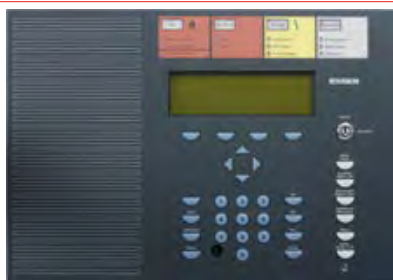
For the Dutch version, the number would have to be changed to Part No. 7860-08.

#### Specific language code:

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

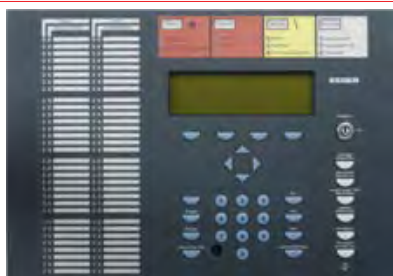
### 786002

### Operating front, English



### 786102

### Operating front with single zone indication 64, English



#### Technical Data

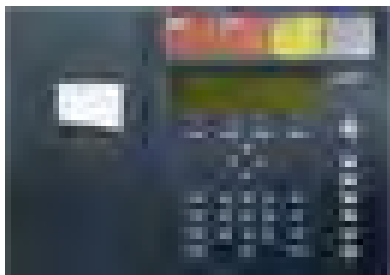
Current consumption

single zone indication: per activated LED  
1.5mA



786802

Operating front w. printer, w/o take-up reel - ESSER, English



## Features

- integrated printer w/o paper take-up reel

## Technical Data

Quiescent current approx. 45 mA

 Possible alternative is operating front 7863xx, printer 784892 and housing extension 789303

 772445 Mounting frame  
786000 SZI front for 192 detector zones, including insertable foils with country-specific version

786302

Operating front for printer and w. take-up reel, English



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


786000

SZI front for 192 detector zones



## Technical Data

Quiescent current approx. 5 mA  
Current consumption 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 approx. 5 mA  
Current consumption 1.5 mA per actuated LED

 772445 Mounting frame  
786000 SZI front for 192 detector zones, including insertable foils with country-specific version



## 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

771670



### 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, for potential-free triggering.

784842



### Master box interface module, 8007/8008, ESSER

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)

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

## Accessories

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 789300 or 789301.



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

#### Accessories

736235 Printer paper for printer 736234 / 784892

736235



### Printer paper for printer 736234/784892

Printer paper part no. 736234 printer with take-up reel.

#### Technical Data

Dimensions

L: 2500 mm W: 58 mm

772445



### Mounting frame 19" IQ8Control C/M



Mounting frame with 6 HU for mounting of operating front.

743212



### Spare key 1D009 for FACP

For upright cabinets 769163 and 769164.



Two keys.

743245



### Lever lock - type 17 for key no. 801

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



Two keys and one cylinder lock.

769914



### Spare key 801 for FACP

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



Two keys.

743248

## Lever lock - type for key no. 901



To lock and unlock the housing frame of fire alarm panels IQ8Control C/M, 8000 M/C and FlexES.



Two keys and one cylinder lock.

769915

## Spare key 901 for FACP



For fire alarm panels 2001, IQ8Control C/M, 8000 C/M, 8008 for printer and housing.



Two keys.

744030

## Dummy cover 19", 2 HU



For covering free installation space in upright cabinets and wallmount 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

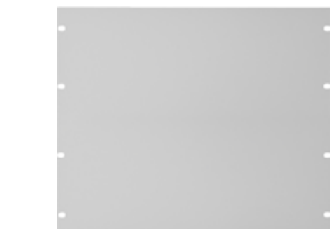
## Dummy cover 19", 5 HU



Same as 744030, but 5 HU.

744029

## Dummy cover 19", 9 HU



Same as 744030, but 9 HU.

## Maintenance and Test Equipment

### 789861



#### Features

One software for all panels:

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

### Programming software tools 8000

Convenient Windows programming software CD for programming the fire alarm panels belonging to series 8000 C/M, 8008, IQ8Control, FlexES Control, Gateway and extended supplementary text in ¼ VGA display.

Available Languages:

Czech, Danish, English, French, German, Hungarian, Italian, Slovakian, Spanish, Polish, Portuguese, Romanian and Russian.

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



- 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, Windows 7, Windows 8
- Recommended configuration: 512 MB RAM, 500 MHz CPU
- This software is also used for the LCD panels 7851xx

### 789860.10



### Starter kit equipment PLus 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.

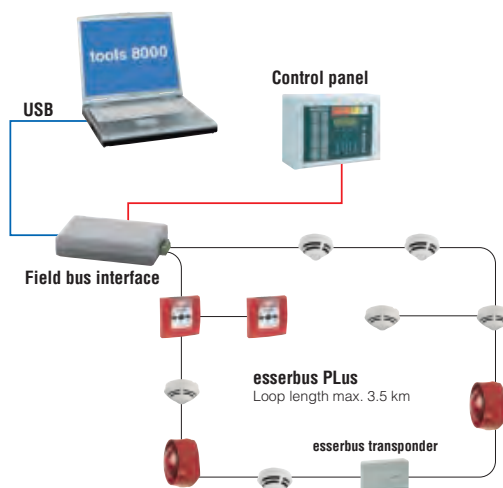


- 789861 Programming software for System 8000 and IQ8Control
- 789862.10 Field bus and control panel interface PLus
- 789863 USB cable
- 789864 Serial connecting cable

#### Accessories

BME2Z002 Switched-mode power supply with cylindrical plug

789866 Programming cable for extinguishing panel 8010



Application example

## 789862.10



## Field bus interface PPlus

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).

### Technical Data

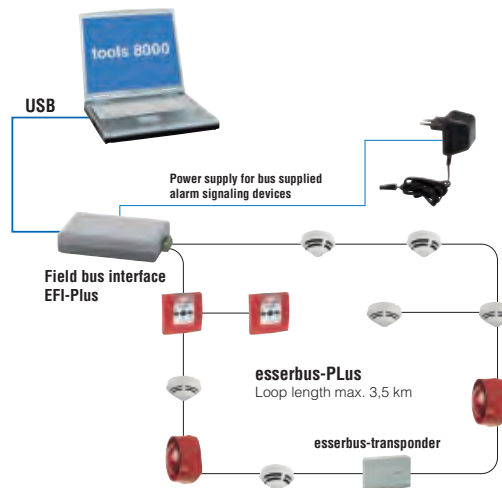
Ambient temperature	5 °C ... 45 °C
Storage temperature	0 °C ... 50 °C
Type of protection	IP 40
Housing	plastic, PS (Polystyrene)
Color	white, similar to RAL 9010 / gray, similar to RAL 7035
Weight	approx. 300 g
Dimensions	W: 68 mm H: 30 mm D: 135 mm

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

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
--------------	-------

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

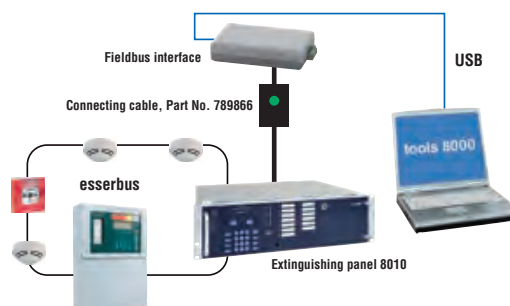
Output voltage	12 V DC
Output current	1 A

789866



## Programming cable for ECP 8010

Connecting lead for programming the extinguishing control panel 8010 to 789862.10 interface.





## Extinguishing System 8010 - Wall Mounting



### Features


- 1 Extinguishing area for max. 1.600 m<sup>2</sup> 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 an extinguishing area in accordance 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 realised by using the 13 control groups (relays). Up to 8 extinguishing areas on the esserbus of the fire detection system communication transponders (optional). Respectively max. 16 communication transponders per FACP 8000 C/M or IQ8Control 8000 or IQ8Control can be networked via the 808615.

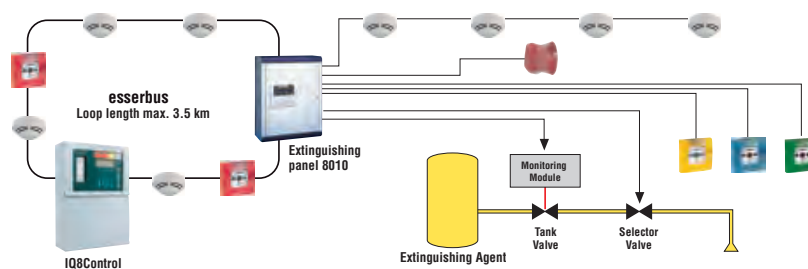
### Technical Data

Rated voltage	230 V AC
Rated frequency	50 ... 60 Hz
Quiescent current	approx. 100 mA
Rated current	0.7 A
Battery capacity	2 x 12 V/26 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 788400 (required for stand alone operation), 788615 esserbus communication transponder, control zone indicator and 788016 alarm counter.



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).

### 788013.40.RU

### Extinguishing panel 8010, Series 4, with operating unit, Russian

Same as 788013.40, but Russian version.

## Extinguishing Control Panel 8010 - Rack Mounting, 3HU

### 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 ventilation fan
- 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.

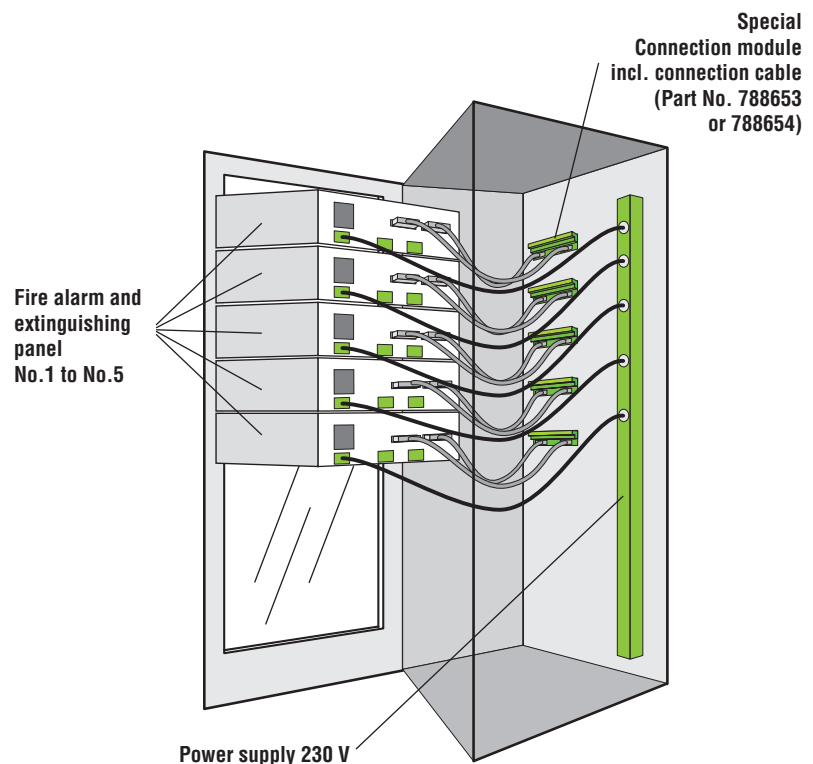
The slide-in concept enables space-saving, ergonomic integration into a 19" housing for installation heights of only 3 height units (13.34 cm). Peripherals are connected at the back of the housing via plug-in cable connections to accessible connection terminals, allowing convenient installation within 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, Q8Control or FlexES Control. 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
Air humidity	< 95 % (non-condensing)
Type of protection	IP 30
Housing	sheet steel
Dimensions	W: 483 mm H: 132 mm D: 403 mm (without grip)
Declaration of Performance	DoP-20223130701



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**

Extinguishing panel as per 12094 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-inch housing for installation heights of only 3 height units (13.35 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, IQ8Control or FlexES Control. Via the programming interface plugged to the front, the extinguishing panel settings can be adjusted to the specific requirements and information can be transferred for visualising to the master fire alarm system via the loop.

**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.GB

Extinguishing control panel, Series 4, English

Same as 788014.40, but English version.

788014.40.PL

Extinguishing control panel 8010 Series 4 with operating unit, Polish

As.40, but Polish version.

788014.40.CZ

Extinguishing control panel 8010 Series 4 with operating unit, Czech

As 788014.40, but Czech version.

788014.40.RO

Extinguishing control panel 8010 Series 4 with operating unit, Romanian

As 788014.40, but Romanian version.

## 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

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

788400

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



Integrated detector zone indication in German. Can be set to show 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

As 788400, but Polish.

788404

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

As 788400 but Czech.

788406

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

As 788400 but Romanian.

788016

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



Foil with German description

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.

788023.10

### Multiple-sector interface in housing



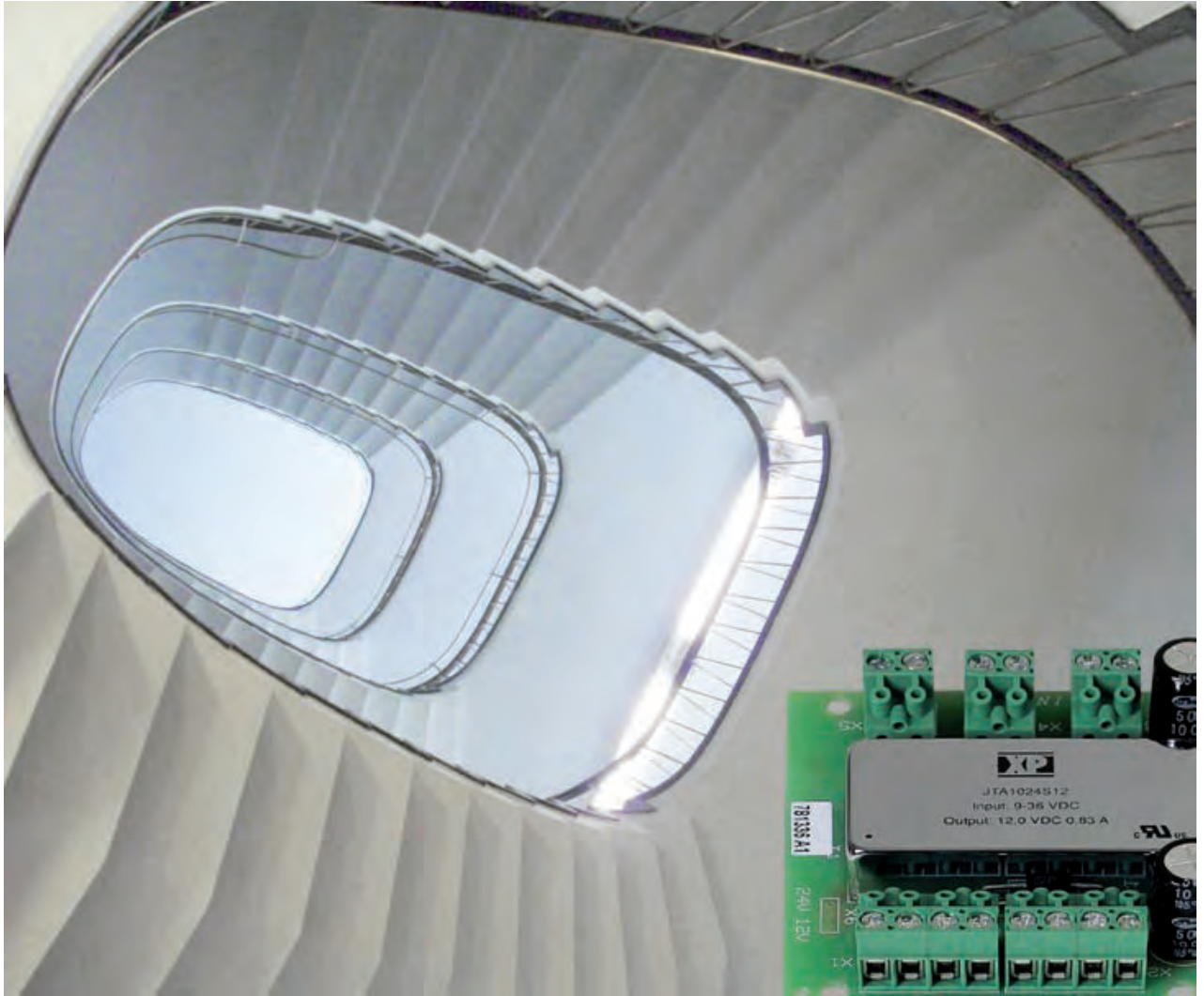
Approval: VdS

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.

#### Technical Data

Declaration of Performance

DoP-21170130701



Power Supplies	Power Supply Units	30-32
	Voltage Converters	33
	Batteries (Rechargeable)	34
	Accessories	34

## Power Supply - Housing Version



### Features

- light indication of the state of the power supply
- floating mode with temperature compensation
- equalize charging of the battery with the charging current limitation
- detection of low and high voltage of the battery
- detection of a battery circuit break
- electronic low voltage disconnect of the battery
- monitoring of output fuses
- continuous testing of the rectifier's operation
- monitoring of the internal temperature
- visual and remote indication of alarm

Approval: VdS, CNBOP

The power supply ZSP135-DR is dedicated to work in fire detection and building automation systems. It is a source of guaranteed 24V voltage. It is manufactured as a wall box with a lock. It has a space inside to mount two batteries. The controller protects the internal battery bank against too low discharge by means of the built-in disconnect device. The power supply complies with the norm EN 54 and EN 12101-10.

Application:- components of fire alarm systems

- actuators of smoke extraction systems and fire and smoke dampers
- fire alarm detector and sounders
- devices of industrial automation

### Technical Data

Rated voltage	230 V AC
Output voltage	24 V DC
Efficiency	> 80 %
Cooling	Convection
Ambient temperature	-25 °C ... 55 °C
Type of protection	IP43

### 960000.10.GB

### External power supply 2 A / 24 V DC 17Ah EN 54-4

Batteries for power supplies ZSP135-DR should be ordered separately.

### Technical Data

Output current	max. 2 A
Rated Output Current	1 A
Battery capacity	max. 17 Ah
Weight	approx. 18 kg (incl. batteries)
Dimensions	W: 390 mm H: 350 mm D: 90 mm

### 960001.10.GB

### External power supply 3 A / 24 V DC 17Ah EN54-4

Batteries for power supplies ZSP135-DR should be ordered separately.

### Technical Data

Output current	max. 3 A
Rated Output Current	2 A
Battery capacity	max. 17 Ah
Weight	approx. 18 kg (incl. batteries)
Dimensions	W: 390 mm H: 350 mm D: 90 mm

### 960002.10.GB

### External power supply 3 A / 24 V DC 28Ah EN 54-4

Batteries for power supplies ZSP135-DR should be ordered separately.

### Technical Data

Output current	max. 3 A
Rated Output Current	1.5 A
Battery capacity	max. 28 Ah
Weight	approx. 28.3 kg (incl. batteries)
Dimensions	W: 390 mm H: 350 mm D: 140 mm



## 960003.10.GB

## External power supply 5 A / 24 V DC 17Ah EN 54-4

Batteries for power supplies ZSP135-DR should be ordered separately.

## Technical Data

Output current	max. 5 A
Rated Output Current	4 A
Battery capacity	max. 17 Ah
Weight	approx. 18 kg (incl. batteries)
Dimensions	W: 390 mm H: 350 mm D: 90 mm

## 960004.10.GB

## External power supply 5 A / 24 V DC 28Ah EN 54-4

Batteries for power supplies ZSP135-DR should be ordered separately.

## Technical Data

Output current	max. 5 A
Rated Output Current	3.5 A
Battery capacity	max. 28 Ah
Weight	approx. 28.3 kg (incl. batteries)
Dimensions	W: 390 mm H: 350 mm D: 140 mm

## 960005.10.GB

## External power supply 5 A / 24 V DC 40Ah EN 54-4

Batteries for power supplies ZSP135-DR should be ordered separately.

## Technical Data

Output current	max. 5 A
Rated Output Current	3 A
Battery capacity	max. 40 Ah
Weight	approx. 42.3 kg (incl. batteries)
Dimensions	W: 450 mm H: 350 mm D: 180 mm

## 960006.10.GB

## External power supply 7 A / 24 V DC 28Ah EN 54-4

Batteries for power supplies ZSP135-DR should be ordered separately.

## Technical Data

Output current	max. 7 A
Rated Output Current	5.5 A
Battery capacity	max. 28 Ah
Weight	approx. 28.3 kg (incl. batteries)
Dimensions	W: 390 mm H: 350 mm D: 140 mm

## 960007.10.GB

## External power supply 7 A / 24 V DC 40Ah EN 54-4

Batteries for power supplies ZSP135-DR should be ordered separately.

## Technical Data

Output current	max. 7 A
Rated Output Current	5 A
Battery capacity	max. 40 Ah
Weight	approx. 42.3 kg (incl. batteries)
Dimensions	W: 450 mm H: 350 mm D: 180 mm

## 960008.10.GB

## External power supply 7 A / 24 V DC 17Ah EN 54-4

Batteries for power supplies ZSP135-DR should be ordered separately.

## Technical Data

Output current	max. 7 A
Rated Output Current	5 A
Battery capacity	max. 17Ah
Weight	approx. 42.3 kg (incl. batteries)
Dimensions	W: 450 mm H: 350 mm D: 180 mm



## External power supply DCU 2403



### Features


- Reversible output voltage 12 V DC or 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
- Switchable ground fault monitoring
- Front door with cover contact
- in compliance with EN 54-4/A2
- for use in voice alarms to supply recessed components, such as at fiber optic recessed callstations


Approval: G 210052

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 / 24 V DC; $\pm 1\%$ (temperature controlled)
Battery capacity	max. 48 Ah @ 12 V DC / max. 24 Ah @ 24 V DC
Output current	6 A @ 12 V DC / 3 A @ 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
Connection terminal	max. 2,5 mm <sup>2</sup>
Housing	sheet steel
Type of protection	IP 30
Air humidity	< 95 % (non condensing)
Color	gray, similar to RAL 7035
Weight	approx. 23 kg incl. batteries each 12 V DC / 24 Ah
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.

 Pre-installed connector cable for 12 V / 24 Ah SB-type battery (Part No. 018006)  
Housing lock with key  
Device accessory kit contains: dummy cover, jumper bar for standby terminal, device fuses, jumper for setup of output voltage

### Accessories

805684.10 Adapter card for DCU 2402

808623 esserbus alarm transponder

## 781335



### Features

- Each output is separately fused

## DC/DC converter 12 V/24 V DC

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
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (housing)
Weight	approx. 150 g
Dimensions	W: 65 mm H: 72 mm D: 20 mm
Declaration of Performance	DoP-20616130701

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 mm<sup>2</sup> 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
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (housing)
Weight	approx. 70 g
Dimensions	W: 65 mm H: 72 mm D: 20 mm
Declaration of Performance	DoP-20617130701



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 mm<sup>2</sup> 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
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40 (housing)
Weight	approx. 70 g
Dimensions	W: 65 mm H: 72 mm D: 20 mm
Declaration of Performance	DoP-20617130701

## Power Supplies

### Power Supply - Accessories

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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**

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**018002**

**Battery 12 V DC/2.1 Ah capacity**

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**018004**

**Battery 12 V DC/7 Ah capacity**

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**018011**

**Battery 12 V DC/12 Ah capacity**

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

**018006**

**Battery 12V DC/24Ah capacity**

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2x Fast-On Adapter from M6 by 6.3mm each 2x M5 hex bolt/washers and snap ring

**018007**

**Battery 12 V DC/17 Ah capacity**

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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**

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

### Power Supply - Accessories

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**805597**

**3.6 V Lithium battery**

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4 pcs

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).



## Displays and Operating Units

LED Indicator Panel

LCD Indicator Panel

System 3000

36

37

38-40

## LED Indicator Panel

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 <sup>2</sup>
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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, IQ8Control or FlexES Control.

#### 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 <sup>2</sup>
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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.

## LCD Indicator Panel

785101



### 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

### LCD indicator panel, English

The LCD indicator panel is used as an add-on device for the remote display of FACP status information of the System 8000 and 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 on another serial interface (e.g. RS 232).

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	9 ... 30 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
Air humidity	< 95 % (non-condensing)
Type of protection	IP 30
Housing	plastic (ABS)
Color	white, similar RAL 9001
Weight	approx. 750 g
Dimensions	W: 206 mm H: 177 mm D: 48.5 mm

785107

### LCD indicator panel, Polish

As 785101, but Polish version.

785109

### LCD indicator panel, Czech

As 785101, but Czech version.

785113

### LCD indicator panel, Hungarian

As 785101, but Hungarian version.



## Fire Brigade Operating Panels

784710

### Fire brigade operating panel, German



Approval: VdS

The fire department operating unit (in accordance with DIN 14661) is an additional device for fire detection systems that contains transmission units to the fire department. The essential display and operating elements of the fire alarm control panel are located on the fire department operating unit (FDOU). The fire fighters can handle all necessary alarm measures via the FDOU – so they do not need any special training on 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 toRAL 7032
Weight	approx. 3.4 kg
Dimensions	W: 255 mm H: 185 mm D: 58 mm



This fire department operating unit is not compatible with any 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

As 784710, but Polish version.

784710.CZ

### Fire brigade operating panel, Czech

As 784710, but Czech version.



## LCD Indicator Panels

784743.CZ

Fire department indicating panel FAT3000, Czech



Approval: VdS

Microprocessor-controlled fire department 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, RS232 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 (> 4000 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	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

The module can only be used when combined with a System 8000 or IQ8Control Fire Alarm Control Panel.

Programming software "FatProgWin" is included.

784743.PL

Fire department indicating panel FAT3000, Polish

As 784743, but Polish version.

## Indicator and Operating Panels in Metal Cabinets

784725.PL

FB information and operating system, DIN A4, Polish



Sheet steel housing with two doors for surface mount or flush mount installation with central door opening for both door. The right-hand housing door can be individually opened by means of a built-in CL1 lock. Door opening through fire brigade lock (suitable for half profile cylinder installation). In the left-hand door of the housing, a 784743 fire service indicator panel and a fire service operating panel 784710 are installed. The housing is designed for holding 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-door sheet steel housing  
Fire service indicating panel 784743  
Fire service operating panel 784710

## Adapter Modules

784744



### Adapter module ADP-N3E

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 department indicating panel FAT3000 is used for initially informing the fire department. 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 <sup>2</sup>
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

#### Features

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



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 FAT3000 (784743). Power is supplied by the fire alarm panel or an external power supply unit. Maximum data line length: 800 m.

784753

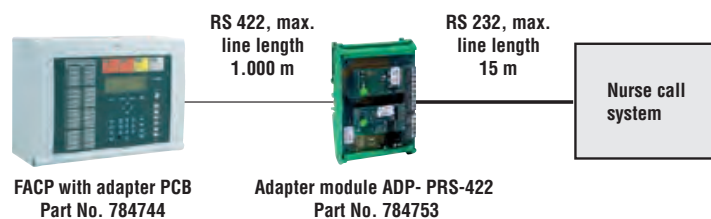


### Adapter module ADP-PRS-422

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

Connection example



Network

essernet

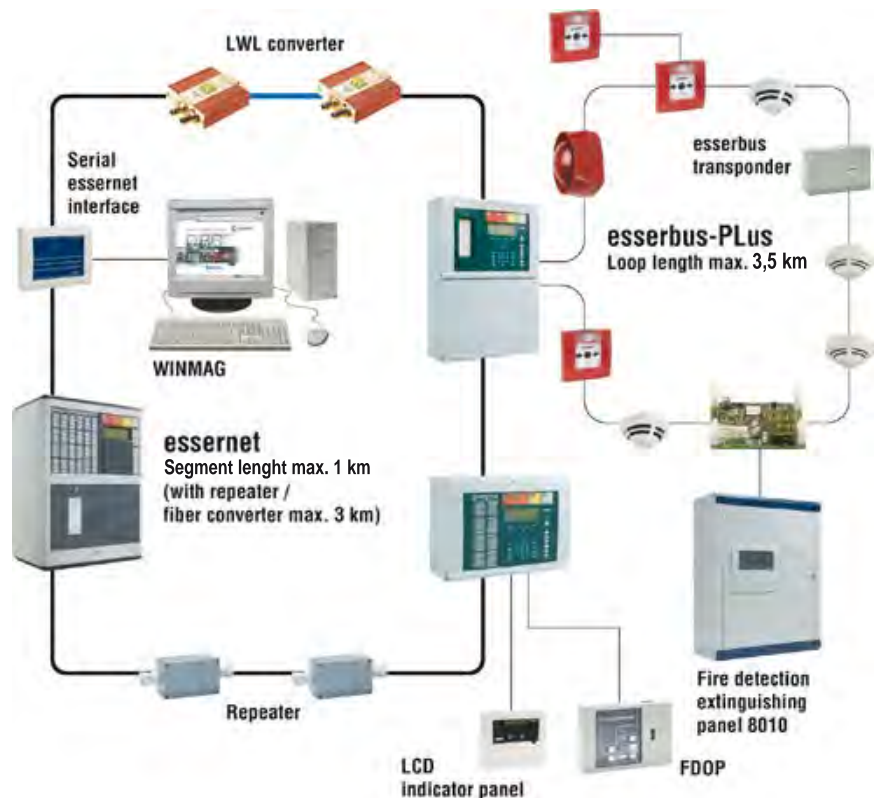
42-46

The essernet is a short circuit and open circuit resistant 2-wire backbone for networking fire 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 by 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 784840.10 or using a data cable, e.g. IBM type 1 as well as CAT5 cable, with 784841.10. With the essernet repeaters, cable distances of up to 3000 m between two panels are possible. An optical waveguide fibre 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 for IQ8Control**

Network interface module for max. 16 network participants.  
Topology: Ring structure, interruption and short-circuit tolerance

**Technical Data**

Quiescent current @ 12 V DC	approx. 150 mA
Cable	telecommunications cable I Y (St) Y n x 2 x 0.8 mm
Cable length per segment	1000 m (max. between 2 users)

784841.10

**essernet® module, 500 kBd for IQ8Control**

Network interface module such as essernet module Item no. 784840.10, however for max. 31 network participants.

**Technical Data**

Quiescent current @ 12 V DC	approx. 150 mA
Cable	IBM type 1,2,6 or similar (e.g. BELDEN 1634A)
Cable length per segment	1000 m (IBM Typ1 max. between 2 users), max. 400 m when Cat3 cable or higher

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
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	IP65
Housing	die-cast aluminum
Air humidity	< 95 % (non-condensing)
Color	gray
Weight	approx. 520 g
Dimensions	W: 125 mm H: 60 mm D: 80 mm
Declaration of Performance	DoP-20619130701

784843

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

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

784766

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

- Two single-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


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 on the top-hat rail without any further mounting fixtures.

Prefabricated connecting cable approx. 1.5 m included for connection to the essernet module in the FACP.

The device should be installed as close as possible to the FACP and the connecting cable should not be extended!

**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
Installation	mounting rail
Air humidity	< 95 % (non-condensing)
Weight	approx. 200 g
Dimensions	W: 55 mm H: 24 mm D: 105 mm

 Max. optical loss per FO-segment (20 km):  
E9/125 µm: 17 dB, E10/125 µm: 17 dB

**Accessories**

788602 Top hat rail

788652 Mounting rail for FACP 8000 and IQ8Control

784855


**SEI 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
Current consumption @ 24 V DC	approx. 30 mA
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-10 °C ... 50 °C
Air humidity	< 95 % (non-condensing)

 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****SEI serial essernet interface EDP, bidirectional**

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

**784859****FACP remote SEI serial essernet interface**

The serial essernet interface is a router with internal RS 485 interface for interfacing an 8000, IQ8Control or FlexES Control 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.

**Features**

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



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)



## Accessories

788606

### Housing for SEI



Housing for the serial essernet interface (SEI).

#### 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 RS232 / V24



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.

013405.20

### Hardware option TCP/IP converter, Ethernet RS232 / RS485



This hardware option is used to connect a remotely a stand-alone FACP or an essernet FACP network essernet via a (for example) company-wide Ethernet LAN to a MBS Management Building System e.g. WINMAG plus 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	12 ... 48 V DC
Ambient temperature	0 °C ... 55 °C
Storage temperature	-20 °C ... 75 °C
Air humidity	< 95 % (non condensing)
Housing	metal
Weight	approx. 340 g
Power consumption	1.5 W
Dimensions	W: 52 mm H: 80 mm D: 22 mm (housing) W: 75.2 mm H: 80 mm D: 22 mm (with tabs)

#### Features

- Transmission with RS232 max. length 15 m and with RS485 max. length 1,000 m
- Serial interface: RS232, RS422 or RS485 (2- and 4-wire), configurable via software
- Transmission speed: 300 bauds 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: RJ45
- Supported protocol: ARP, UDP, TCP, ICMP, Telenet, 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 10 TCP/IP converters can be connected per PC (Personal Computer).



## Hazard Management System

WINMAGplus

48-56

WINMAGLite

57

Difference WINMAGLite vs. WINMAGplus

58



## Features

- Compatible with Windows XP Professional SP2; Windows of 2003 servers; Windows Vista, 7 and 8
- 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 legitimises program use. A dongle is acquired together with a license. The dongle must be plugged into a parallel interface or into a USB port of the WINMAGplus computer. With multi-station systems, every computer that is networked must be equipped with a dongle. Workstations that are not networked do not need a dongle. If the dongle is removed during operation, WINMAGplus runs for max. 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 the 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 continuously rising 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 irrespective of their product lines. For developing your own drivers, we can provide you with the connection server and a developer's package. Thus, individual WINMAGplus drivers can 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, Windows 2003 Server, Vista and Windows 7 & 8, Internet Explorer version 6.0 or higher.

To order WINMAGplus licenses, please use the order form found in the back of the catalog.

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 version, Windows Vista 32-/64-Bit version, Windows 7 & 8 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.



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 expiry of the test time, 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 printed in the appendix.

You can also download this software free of charge from our protected download area at [www.hls.austria.com](http://www.hls.austria.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 013601 – 013606, 013608, 013611, 013613, 013625).



Please use order form printed in the appendix.



Dongle for USB port

**Upgrade Package**

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 in order form.



Please use order form printed in the appendix.



License file

013617

**WINMAG installation upgrade as of version 6**

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 separately ordered.



Please use order form printed in the appendix.

## Extension Licenses

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013609

### WINMAGplus control center software - subsequent upgrade

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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.



Please use order form printed in the appendix.

013601

### WINMAGplus license - intrusion detection technology

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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 number 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 and Galaxy..

Please use order form printed in the appendix.

013643

### WINMAGplus license - Galaxy Dimension

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License option for WINMAG/WINMAGplus basic software. Required if Honeywell Galaxy Dimension intrusion detection technology is connected to WINMAG.



This license may be ordered separately (as subsequent optional upgrade) only in conjunction with the auxiliary number 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.

Please use order form printed in the appendix.

013626

### WINMAGplus license - fire detection technology

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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 number 013609. The update number of the basic license must be included when ordering. The license is used for connection of the Honeywell IQ8Control, system 8000 1024, 1016 and FlexES Control fire detection systems.

Please use order form printed in the appendix.

013603

### WINMAGplus license - access control

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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 number 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 printed in the appendix.

013604

**WINMAGplus license - video technology**

License option for WINMAG/WiINMAGplus basic software. Required if video technology equipment is to 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; HDPR series; contact your supplier for additional brands.



This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary number 013609. The update number of the basic license must be included when ordering.

Please use order form printed in the appendix.

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) is to 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 number 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 printed in the appendix.

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 number 013609. The update number of the basic license must be included when ordering.

Please use order form printed in the appendix.

013661

**NEW****Management software WINMAGPlus licence for Honeywell DTS detector**

License option for WINMAG/WINMAGplus basic software. Required if Honeywell DTS linear heat detection systems is connected to WINMAG to receive, visualize fire alarm and fault states from DTS zones.



## Connection Server

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013606

### WINMAGplus license connection server

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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 number 013609. The update number of the basic license must be included when ordering.

Please use order form printed in the appendix.

013607

### Connection server developers kit

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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 printed in the appendix.



Dongle for USB port and license file

## OPC

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013618

### Data points package

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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 013590 universal gateway for PC and/or license 013611 OPC server.

Please use order form printed in the appendix.

013611

### WINMAGplus license – OPC server

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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 013618 license. This license may be ordered separately (as a subsequent optional update) only in conjunction with the auxiliary number 013609. The update number of the basic license must be included when ordering.

Please use order form printed in the appendix.

013612

### WINMAGplus license – OPC client

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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 number 013609. The update number of the basic license must be included when ordering.

Please use order form printed in the appendix.



## 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 number 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 printed in the appendix.

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 number 013609. The update number of the basic license must be included when ordering. For the escalation license, the 013613 notification license is required. A PC sound card is required for this function.

Please use order form printed in the appendix.

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 number 013609. The update number of the basic license must be included when ordering.

Please use order form printed in the appendix.

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 printed in the appendix.

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 number 013609. The update number of the basic license must be included when ordering.

Please use order form printed in the appendix.

013653

**WINMAGplus – 4-monitor support option**

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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.

013655

**WINMAGplus – AutoCAD option**

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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.

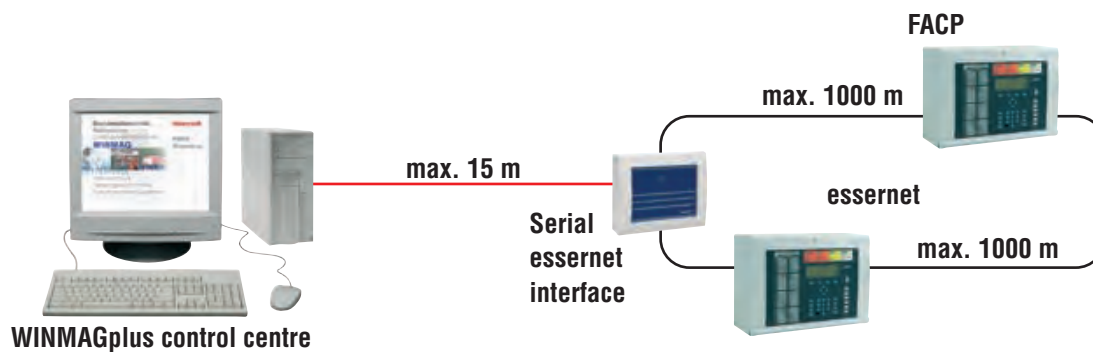


Please use order form printed in the appendix.

## Application Example

### 1.

#### WINMAGplus single station system with an essernet connection



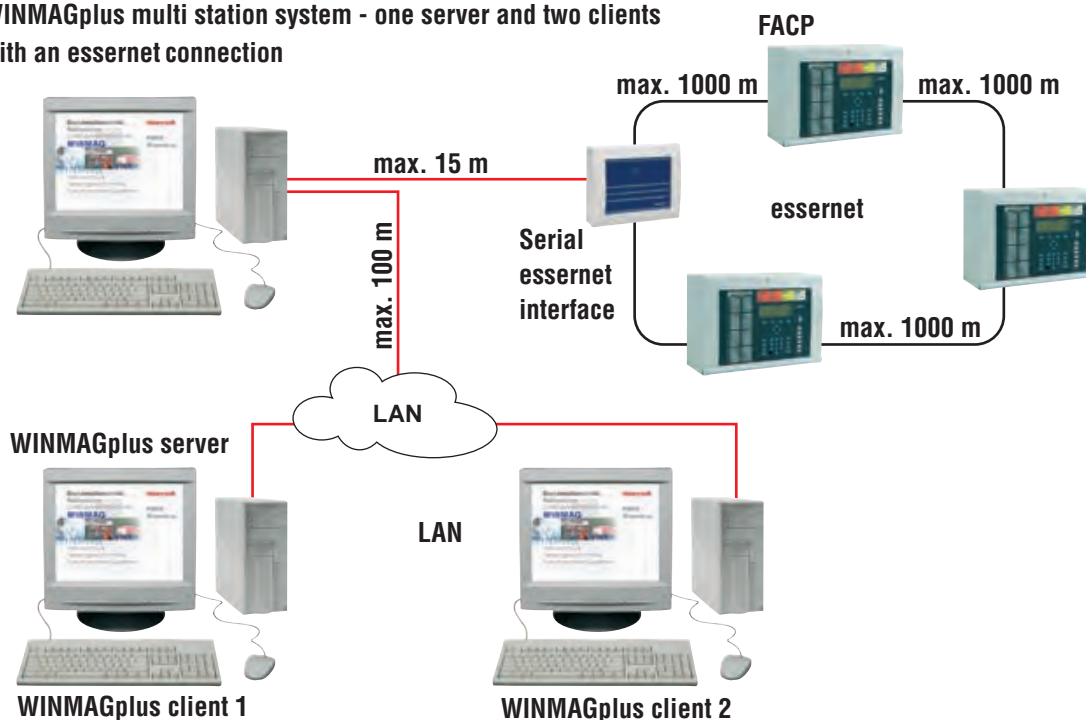
#### WINMAGplus software requirements:

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:

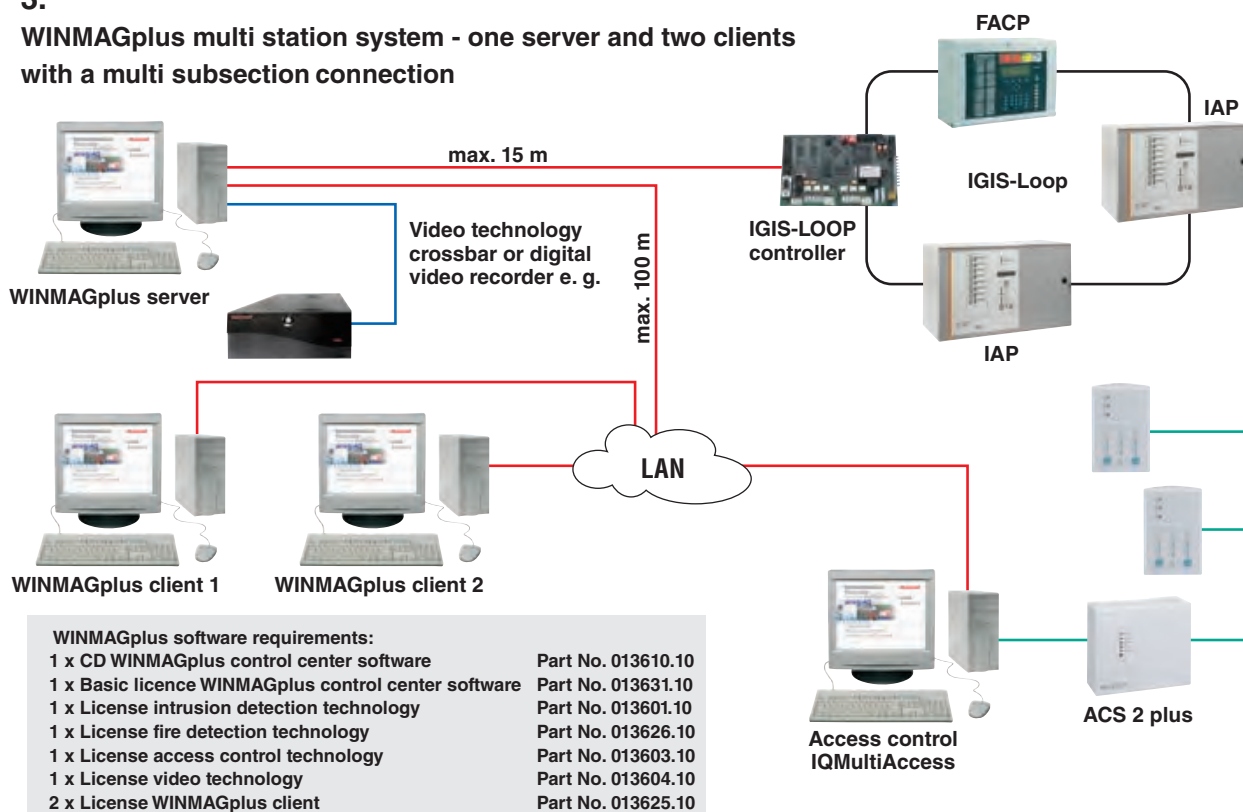
1 x CD WINMAGplus control center software  
1 x Basic license WINMAGplus control center software  
1 x Licence fire detection technology  
2 x License WINMAGplus client

Part No. 013610  
Part No. 013631  
Part No. 013626  
Part No. 013625

## Application Example

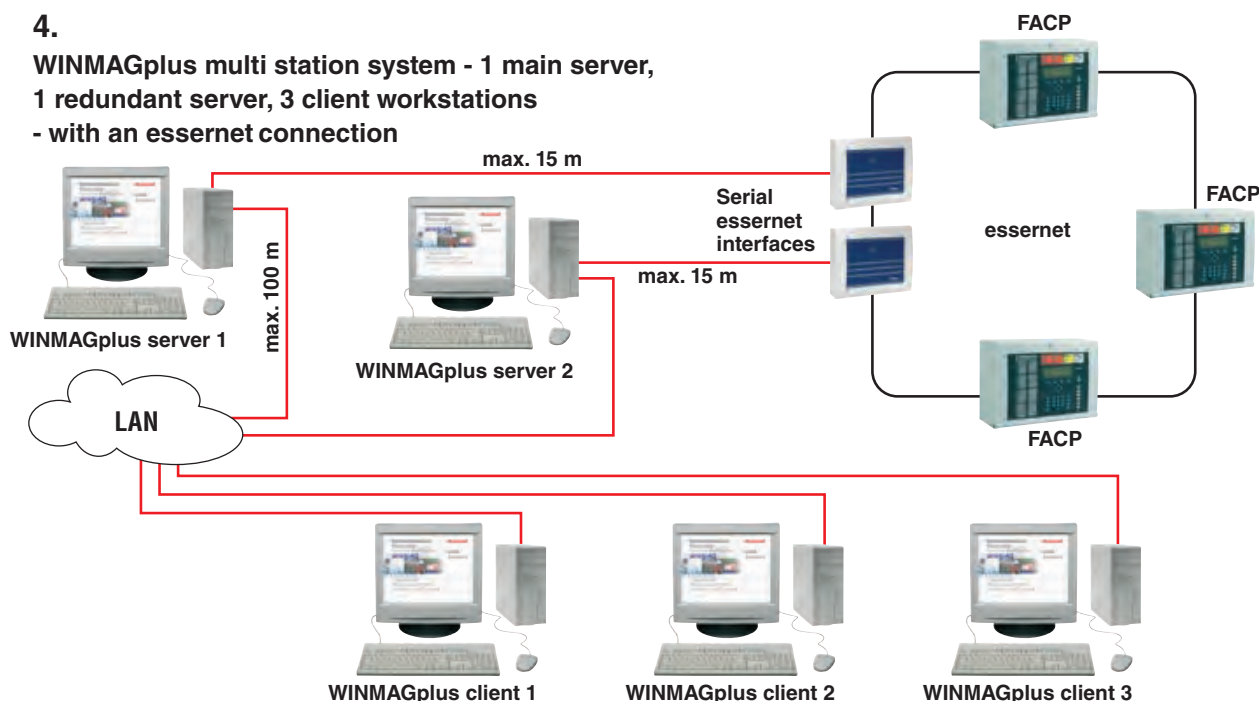
3.

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



WINMAGplus software requirements:

Server 1

1 x CD WINMAGplus control center software  
 1 x Basic license WINMAGplus control center software  
 1 x License fire detection technology  
 4 x License WINMAGplus client  
 1 x License option redundance

Part No. 013610.10  
 Part No. 013631.10  
 Part No. 013602.10  
 Part No. 013625.10  
 Part No. 013624.10

Server 2

1 x Basic license WINMAGplus control center software  
 Part No. 013631.10  
 1 x License fire detection technology  
 Part No. 013610.10



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 adjusted via a text editor to the respective situation on site.

The alarm stack which was implemented in previous WINMAG versions is replaced through 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, Vista, Windows 7 & 8 and Windows 2003 Server, Internet Explorer 6.0 or higher.

Please use order form printed in the catalog.

Training for this product is offered. Please contact our training department.



Basic CD control center software package WINMAGLite

**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](http://www.esser-systems.com).























## Difference WINMAGLite vs. WINMAGplus

## Differences between WINMAG Lite and WINMAG plus

WINMAG Lite is the inexpensive starter version of the hazard management system WINMAG plus 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 WINMAG Lite is sufficient for an application or WINMAG plus must be used.

The data structure of WINMAG Lite and WINMAG plus is identical. It is possible to change from WINMAG Lite to the full version.

	WINMAG Lite	WINMAG plus
Item No.	013635	013630/13631+ 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 WINMAG Lite, in addition alarm programs with alarm stacks
Alarm criteria	predefined	configurable
Graphics	identical to WINMAG plus, 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

Series ES Detect (Intelligent non-addressable)

Series IQ8Quad (Conventional)

Intrinsically Safe

Base Series IQ8Quad, ES Detect

Accessories

60-63

64-75

76-81

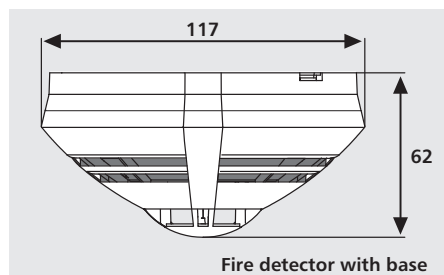
82

83-95



## Automatic Detectors

## Series ES Detect (Intelligent non-addressable)



### Features

#### System benefits:

- With multisensor detectors for the detection of all fires, even under the most difficult operating conditions
- Up to 30 detectors per detection group.

#### Reliable detection:

- Uniform response sensitivity of the detector for all different types of fire for the multisensor detectors
- Large distance between signal and interference magnitudes due to special sensor and electronics design for suppressing electromagnetic influences
- Automatic adaptation to varying environmental influences
- Electronic compensation of long-term influences of contamination or aging

#### Reliable false alarm suppression:

- High reliability against false alarms by temporal evaluation of different sensor criteria
- Exclusion of signal forms not typical of fires through special filter algorithms
- Automatic self-monitoring of the detector electronics
- Automatic self-monitoring of sensors for function and condition

#### Maintenance:

- Designation of the heat detector by a black ring on the light pipe
- Hours of operation, alarm and fault counter in each detector
- Operation data retrieval of all detectors of a group with standard service PC and field bus interface
- Detector LED for alarm display and as an identification display in the service (for maintenance with 8000 tools)

#### Wide range of accessories:

- Standard socket and relay base
- Socket adapter for ceiling installation
- Dust caps optional for fire detectors and detector base
- Kit for suspended mounting

The ES Detect automatic detector is an intelligent non-addressable detector specifically designed for operation on conventional detector groups. ES Detect sets new standards in conventional technology through high quality sensors with advanced detection technology. These include not only the intelligent algorithms for fire detection but also the wide range of different types of detectors, including multisensor detectors OTblue and O<sup>2</sup>T. ES Detect also helps to save costs, because with the implemented drift compensation, ES Detect can be operated a full eight years, instead of five years for ordinary detectors, according to DIN 14675. Numerous accessories are available from the program of the IQ8Quad detector series. The ES Detect is equipped with a logo for optical differentiation. The convenient maintenance with the programming software tools 8000 (in preparation) completes the full spectrum of ES Detect, from which the operating data of the detector (for example, the measured values, contamination, alarm counters, operating hours counter ...) can be read and stored. The detectors remain where they were installed, because the complete detector group can be connected to a PC and serviced via the field bus interface (Part No. 789862.10).

### Technical Data

Operating voltage	8 ... 42 V DC
Alarm current @ 9 V DC	typ. 9 mA
Air speed	0 ... 25.4 m/s
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 43 (base + option)
Material	ABS
Color	white, similar to RAL 9010
Weight	approx. 110 g
Dimensions	Ø: 117 mm H: 49 mm (62 mm inkl. Sockel)



Special colors on request!

In order to pass through existing wires, the WAGO grips (e.g., type 243-204 (O 0.5-1 mm) or 273/104 (0.75-2.5 mm<sup>2</sup>)), can be integrated into the detector base.

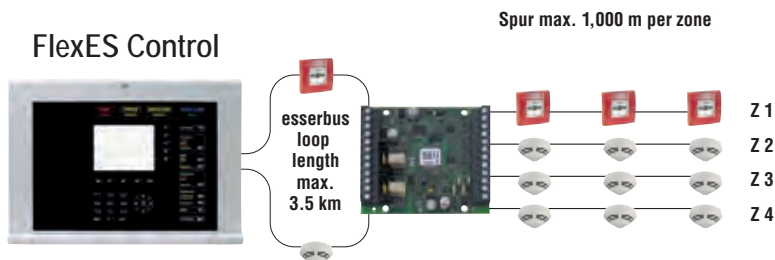


Detector base is not supplied as standard

### Accessories

- 767800 assembly bracket
- 805590 standard IQ8Quad detector base
- 805591 detector base with IQ8Quad relay contact

### FlexES Control



800171

**Fixed heat detector ES Detect**

Approval: G 213068

Automatic heat detector with fast semiconductor sensor for reliable detection of fires with distinctive heat. Fire detector with decentralized intelligence, automatic function self-test, alarm and operations data storage and alarm display. A remote indicator can also be connected.

**Technical Data**

Quiescent current @ 9 V DC	approx. 25 $\mu$ A
Area to be monitored	max. 30 m <sup>2</sup>
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-5 A1S



Special marking for heat detector on the light pipe: black ring

800177

**Fixed heat detector ES Detect, Class B**

Approval: G 213067

As 800171, however, for increased response temperature according to EN 54-5 class B.

**Technical Data**

Quiescent current @ 9 V DC	approx. 25 $\mu$ A
Area to be monitored	max. 30 m <sup>2</sup>
Height to be monitored	max. 6 m
Application temperature	-20 °C ... 65 °C
Detector specification	EN 54-5 BS



Special marking for heat detector on the light pipe: black ring

800271

**Rate-of-rise detector ES Detect**

Approval: G 213069

Automatic heat detector with fast semiconductor sensor for reliable detection of fires with rapid temperature rise and integrated maximum value function for the recognition of fires with slow temperature rises. Fire detector with decentralized intelligence, automatic function self-test, alarm and operations data storage and alarm display. A remote indicator can also be connected.

**Technical Data**

Quiescent current @ 9 V DC	approx. 25 $\mu$ A
Area to be monitored	max. 30 m <sup>2</sup>
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-5 A1R



Special marking for heat detector on the light pipe: black ring

800371

**Optical smoke detector ES Detect**

Approval: G 213066

Scattered-light smoke detector for reliable early detection of fires. Fire detector with decentralized intelligence, automatic function self-test, automatic environmental adaptation, alarm and operating data storage and alarm display.

A remote indicator can also be connected.

**Technical Data**

Quiescent current @ 9 V DC	approx. 30 $\mu$ A
Area to be monitored	max. 110 m <sup>2</sup>
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 72 °C
Detector specification	EN 54-7

800375

**OT<sup>blue</sup> multisensor detector ES Detect**

Approval: G 213065

Multisensor detector with integrated optical smoke and heat sensor. The optical measurement chamber is equipped with a novel sensor which allows the detection of open fires, smoldering fires and fires with high heat.

The classical ionization detector is replaced by these detection methods, especially in open fires.

This detector is also capable of detecting test fires TF1 and TF6 described in the EN 54-9:1982.

The OT<sup>blue</sup> multisensor is a fire detector with temporal signal analysis, weighted combination of sensor data, decentralized intelligence, automatic function self-test, automatic environmental adaptation, alarm and operating data storage and alarm display.

A remote indicator can also be connected.

**Technical Data**

Quiescent current @ 9 V DC	approx. 35 $\mu$ A
Area to be monitored	max. 110 m <sup>2</sup>
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-7/-5 A2, CEA 4021

800374

**O<sup>2</sup>T multisensor detector ES Detect**

Approval: G 213070

Multisensor detector with two integrated optical smoke sensors with different scattered light angles as well as additional heat detector sensor evaluation for detecting anything from smoldering fires to open fires with uniform response characteristics. Compares smoke sensor signals for smoke classification and reduction of false alarms from water vapor or dust, for example. Due to its excellent detection properties, the detector is also capable recognizing test fires TF1 and TF6 described in the standard. The O<sup>2</sup>T multisensor detector is also suitable for higher application temperatures of up to +65° C.

A remote indicator can also be connected.

**Technical Data**

Quiescent current @ 9 V DC	approx. 45 $\mu$ A
Area to be monitored	max. 110 m <sup>2</sup>
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 65 °C
Detector specification	EN 54-7/-5 B, CEA 4021

800361.10

**Optical Smoke Detector Detect ES with relay contact, 48 V DC operation**

The threshold value detector with relay contact 800361.10 comprises an optical smoke detector 800371 from the ES Detect series and a detector base 805592 which enables a direct connection to a 48 V DC power supply. The detector therefore does not need to be operated in connection with a fire alarm control panel.

If the detector detects a fire alarm, a floating relay contact activates to transmit the alarm. The relay contact is normally open (NO) by default, but can also be configured as normally closed (NC) with a solder strap on the circuit board base.

A typical use for this detector is to monitor mobile communication stations, e.g. BTS base transceiver stations.

Take note, the Detector base with relay output for ES Detect 805592 is included in the scope of delivery!

**Technical Data**

Operating voltage	42 ... 58 V DC
Quiescent current	approx. 0.051 mA (@ 48 V DC)
Current consumption	max. 9 mA
Contact load relay	30 V DC / 1A, 60 V DC / 0,45 A
Area to be monitored	max. 110 m <sup>2</sup>
Height to be monitored	max. 12 m
Air speed	0 ... 25.4 m/s
Application temperature	-20 °C ... 72 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 43 (with base and option)
Material	ABS
Color	white, similar to RAL 9010
Weight	approx. 110 g (ca. 190 g incl. base)
Detector specification	EN 54-7
Dimensions	Ø: 117 mm H: 49 mm (incl. base 62 mm)



Replacement for Part No. 761306

805592

**Detector base with relay output for ES Detect 800631.10**

Detector base with relay contact output, for ES Detect detector family. Suitable for 48 V DC operation.

Contact: floating normally open or normally closed, selectable via coding strap, factory setting: normally open.

A typical use for this base with ES Detect detector is to monitor mobile communication stations.

**Technical Data**

Operating voltage	42 ... 58 V DC
Contact load relay	30 V DC / 1A, 60 V DC / 0,45 A
Connection terminal	Ø 0,6 mm ... 2 mm <sup>2</sup>
Application temperature	-20 °C ... 72 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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 bottom plate.

For looping existing wires, for example, the type 243-204 WAGO terminals (Ø 0.5 mm Ø 1.0 mm) or 273 to 104 (0.75 mm-2.5 mm) are used.

Not for use with IQ8Quad detectors!

Not for use in esserbus and powered loop ringbus!

Contained in Part No. 800361.10

Replacement for Part No. 781582

Automatic intelligent fire detectors with high reliability and low power consumption 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

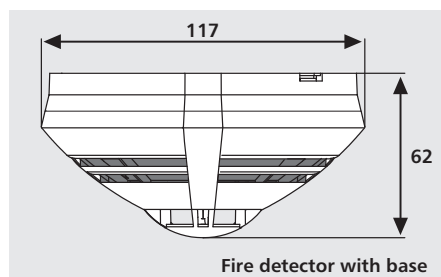
### Maintenance

- 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 % (non-condensing)
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 a single thermistor to sense the air temperature around the detector. Fast semiconductor sensor guarantees reliable detection of fires with strong heat generation. Ideal for sensing in environments that are dirty or smoky under normal conditions, as well it is unaffected by wind or atmospheric pressure. 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
Declaration of Performance	DoP-20102130701



Special marking for heat detector on the light pipe: black ring.

## 802177



## Fixed heat detector IQ8Quad (class B), with higher operating temperature 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 m²
Height to be monitored	max. 6 m
Application temperature	-20 °C ... 65 °C
Detector specification	EN 54-5 BS / -17
Declaration of Performance	DoP-20411130701



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 a single thermistor to sense the air temperature around the detector. Fast semiconductor sensor guarantees reliable detection of fires with rapidly rising temperatures and integrated fixed temperature function for the detection of fires with slowly rising temperatures. Ideal for sensing in environments that are dirty or smoky under normal conditions, as well it is unaffected by wind or atmospheric pressure. 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 <sup>2</sup>
Height to be monitored	max. 7.5 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-5 A1 / -17
Declaration of Performance	DoP-20103130701



Special marking for heat detector on the light pipe: black ring.

802371

**Optical smoke detector IQ8Quad with isolator**

Approval: VdS, CNBOP, BOSEC

Optical smoke detector which works using the light scatter principle to guarantee safe and early detection of fire. Responds well to slow-burning, smouldering fires. 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 m <sup>2</sup>
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 72 °C
Detector specification	EN 54-7 / -17
Declaration of Performance	DoP-20104130701

802373

**OT multisensor fire detector IQ8Quad with isolator**

Approval: VdS

Multisensor fire detector with integrated optical sensor and heat sensor which give both a combined signal as well as a separate heat signal for improved false alarm management, with time-controlled signal analysis and weighted data combination of both detector functions for detecting smouldering 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 m <sup>2</sup>
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-7/-5 A2 /-17, CEA 4021
Declaration of Performance	DoP-20111130701

802374

**O<sup>2</sup>T 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 by interferences, for instance, water vapor or dust. Used when early and reliable fire detection is requested. Because of its excellent detection characteristics and enhanced false alarm management, the detector is also able to identify the standardized TF1 and TF6 test fires. The O<sup>2</sup>T 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 <sup>2</sup>
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 65 °C
Detector specification	EN 54-7/-5 B/-17, CEA 4021
Declaration of Performance	DoP-20105130701

802375

**OTblue multisensor fire detector IQ8Quad with isolator**

Approval: VdS

Multisensor fire detector with integrated optical sensor and heat sensor with enhanced false alarm management. The optical measurement chamber is provided with a patented developed sensor technology using a high-sensitive blue LED (instead of the commonly used red LED in Optical smoke detectors), 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 unique detection technology, unlike ionization detectors, this sensor works without a radioactive element which causes problems at the time of refuse disposal. The detector is capable of identifying the TF1 and TF6 test fires described in the EN 54-9:1982 specification. Well suited for sensitive environment, detection of invisible up to large aerosols. 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 m <sup>2</sup>
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
Declaration of Performance	DoP-20113130701

802473

OTG multisensor fire detector (CO) IQ8Quad with isolator



Approval: VdS

Multisensor fire detector with integrated smoke detector, heat detector and gas sensor (CO) with enhanced false alarm management, for preventive and early detection of deep-seated smouldering fires which give a lot of CO as well as flaming 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. Less susceptible to false alarms caused by dust, as well as earliest and reliable detection of fire development due to the additional detection of CO. Also a Technical Alarm (TAL) can be programmed with the flexible programmable CO threshold up to 150 ppm. 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 <sup>2</sup>
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 50 °C
Detector specification	EN 54-7/-5 A2 /-17, CEA 4021
Declaration of Performance	DoP-20115130701



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 (H<sub>2</sub>), acetylene (C<sub>2</sub>H<sub>2</sub>) or nitric oxide (NO).

Special marking for gas detector on the light pipe: golden ring.

## Detector with Integrated Alarm Devices

### Features

#### Detection

- The reliable O<sup>2</sup>T 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

#### 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 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 (O<sup>2</sup>T/F, O<sup>2</sup>T/So, O<sup>2</sup>T/Sp, O<sup>2</sup>T/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/A2
- acoustic alarm speech messages as per EN 54-3/A2
- short-circuit isolator as per EN 54-17

#### Detection

Multisensor 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 smouldering 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 by the control panel. No further short address needs to be allocated. It is programmed with tools 8000 as of software version 1.05.

#### 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 signalling 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 64dB (A) to approximately 92dB (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, the respective 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.


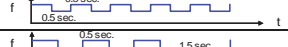
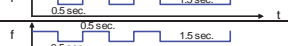

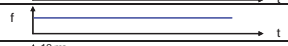

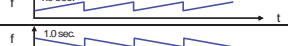







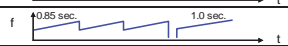




signal 1 (evacuation)	sequence 1	sequence 2	sequence 3	sequence 4
signal 2 (alarm)	sequence 1	sequence 2	sequence 3	sequence 4
signal 3 (event 1)	sequence 1	sequence 2	sequence 3	sequence 4
signal 4 (event 2)	sequence 1	sequence 2	sequence 3	sequence 4

Signals

## Detector with Integrated Alarm Devices

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.

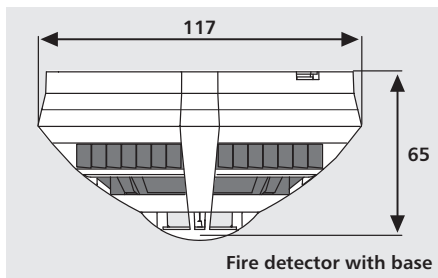
Standard speech messages of IQ8Quad detectors and IQ8Alarm - for other languages also refer to the appendix!

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



## Detector with Integrated Alarm Devices

**Technical Data**

Operating voltage	8 ... 42 V DC
Area to be monitored	max. 110 m <sup>2</sup>
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 % (without condensation)
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 769836 demo package is available for presentations. Further data can be viewed in the accessories section for automatic detectors.

Special-colors on demand!

It is not possible to use the detector base with relay (part no. 805591).

When connected with parallel indicator does not allow to program parallel indicator.

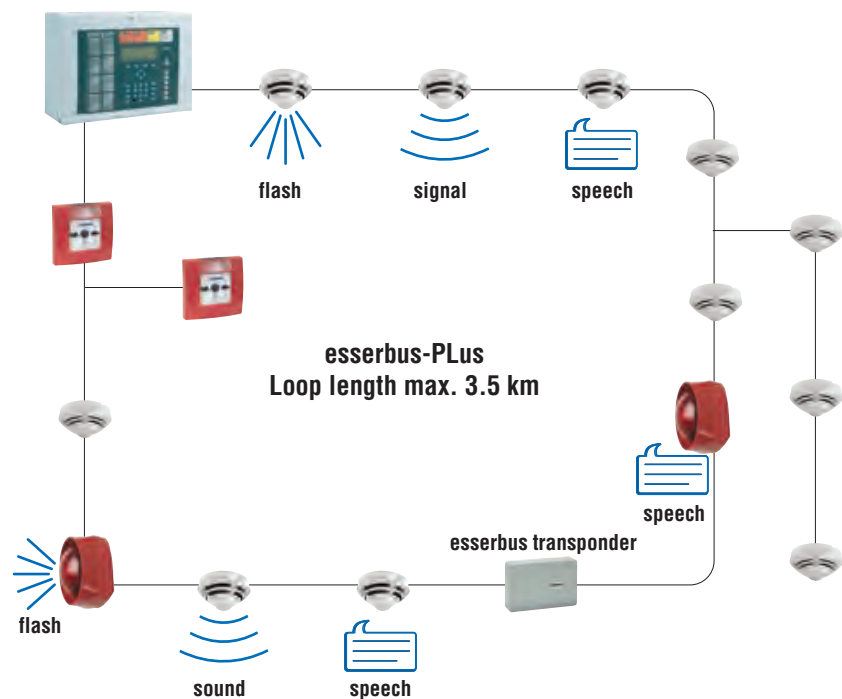


Detector base is not supplied as standard

**Accessories**

767800 Mounting bracket

805590 Standard detector base for IQ8Quad

**IQ8Control C**

Application example

802382

**O/So optical smoke detector IQ8Quad**

Approval: VdS

O/So optical smoke detector IQ8Quad with integrated sounder

Scatter smoke detector for safe and early detection of smouldering fires with light smoke generation. Intelligent detector with decentralised 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.

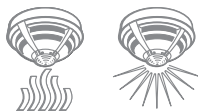
**Technical Data**

Quiescent current @ 19 V DC	approx. 50 $\mu$ A
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 805591!

802383

**O<sup>2</sup>T/F multisensor IQ8Quad**

Approval: VdS

O<sup>2</sup>T/F multisensor IQ8Quad with integrated flasher

In addition to smoke detection with the conventional O<sup>2</sup>T multisensor technology, the detector is provided with a built-in flash lamp.

**Technical Data**

Quiescent current @ 19 V DC	approx. 75 $\mu$ A
Load factor	2
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



Not suitable for application in detector base 805591!

802384

**O<sup>2</sup>T/So multisensor IQ8Quad**

Approval: VdS

O<sup>2</sup>T/So multisensor IQ8Quad with integrated sounder

In addition to smoke detection with the conventional O<sup>2</sup>T multisensor technology, the detector is provided with a built-in alarm signalling device. The sound level can be set to eight different levels.

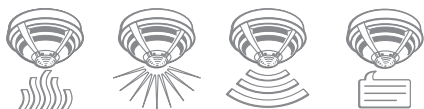
**Technical Data**

Quiescent current @ 19 V DC	approx. 80 $\mu$ A
Load factor	2
Sound level	max. 92 dB (A), +/- 2 db (A) @ 1m for DIN tone
Type of protection	IP 42
Detector specification	EN 54-7/-5 B/-17, CEA 4021
Specification	EN 54-3 acoustic signaling device



Not suitable for application in detector base 805591!

## 802385

O<sup>2</sup>T/FSp multisensor IQ8Quad

Approval: VdS

O<sup>2</sup>T/FSp multisensor IQ8Quad with integrated flasher, sounder and speech

In addition to smoke detection with the conventional O<sup>2</sup>T 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

EN 54-3 acoustic signaling device

EN 54-3 acoustic speech signaling device

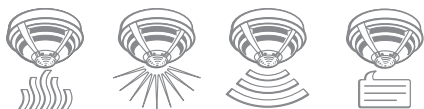


Not suitable for application in detector base 805591!



Programmed with 5 standard languages: German, English, Spanish, French and Italian

## 802385.SV98

O<sup>2</sup>T/FSp multisensor detector IQ8Quad with composition of other languages

Approval: VdS

O<sup>2</sup>T/FSp multisensor IQ8Quad with integrated flasher, sounder and speech

As 802385, but with an individual combination of national 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.

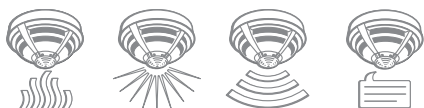
Cancellations or returns are not possible.

Not suitable for application in detector base 805591!



Programmed with an individual combination of up to 5 languages.

## 802385.SV99

O<sup>2</sup>T/FSp multisensor detector IQ8Quad, customized version

Approval: VdS

O<sup>2</sup>T/FSp multisensor IQ8Quad with integrated flasher, sounder and speech

As 802385, but with individual text and/or sounds. The max. 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 by request.

Cancellations or returns are not possible.

Not suitable for application in detector base 805591!



Programmed according to customer specifications.

## 802386

O<sup>2</sup>T/Sp multisensor IQ8Quad

Approval: VdS

O<sup>2</sup>T/Sp multisensor IQ8Quad with integrated sounder and speech

In addition to smoke detection with conventional O<sup>2</sup>T 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

Load factor

Sound level

Detector specification

Specification

approx. 90 µA

3

max. 92 dB (A), +/- 2 dB (A) @ 1m for DIN tone

EN 54-7/-5 B/-17, CEA 4021

EN 54-3 acoustic signaling device

EN 54-3 acoustic speech signaling device



Not suitable for application in detector base 805591!



Programmed with 5 standard languages: German, English, Spanish, French and Italian

## 802386.SV98

O<sup>2</sup>T/Sp multisensor IQ8Quad, special language

Approval: VdS

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.



Programmed with individual combination of up to 5 standard languages.

## 802386.SV99

O<sup>2</sup>T/Sp multisensor IQ8Quad, customized version

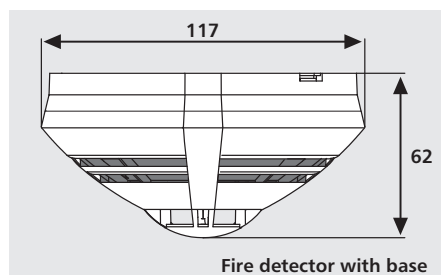
Approval: VdS

As 802386, but with individual text and/or sounds. The max. 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.

## Series 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.

Fully addressable devices for installation in hazardous areas with direct connection of the Ex barrier (Part No. 804744) on the loop, without spending a loop address for the connection via a transponder as in case of the conventional connection.

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.

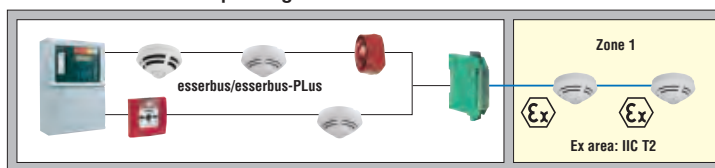
All of the following IQ8Quad intrinsically safe fire detectors must be operated with the Part No. 805590 base. In the case of operation in standard zones, no individual addressing is possible!

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!

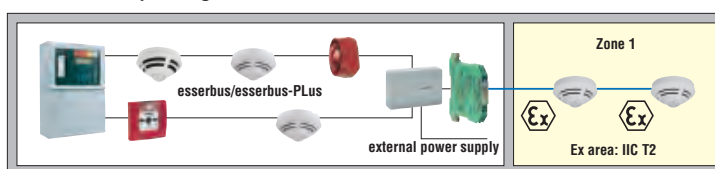
The Ex barrier separates intrinsically safe and non-intrinsically safe circuits before the explosion prone area to be monitored (explosion zone).

## Individual addressable operating



Ex barrier (Part No. 804744)

## Conventional operating



Ex barrier (Part No. 764744)



esserbus 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 a single thermistor to sense the air temperature around the detector. The fast semiconductor sensor for the reliable recognition of fires with a single thermistor to sense the air temperature around the detector. The fast semiconductor quick rate of temperature rise as well as integrated fixed temperature heat function for the recognition of fires with slow temperature rise. Ideal for sensing in environments that are dirty or smoky under normal conditions, as well it is unaffected by wind or atmospheric pressure.

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 m²
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

## 803371.EX

## Optical smoke detector IQ8Quad Ex (i) w/o isolator



## Approval: VdS, ATEX

Scattered-light smoke detector for reliable early recognition of fires. Responds well to slow-burning, smouldering 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 m²
Height to be monitored	max. 12 m
Application temperature	-20 °C ... 70 °C
Detector specification	EN 54-7 : 2006
Declaration of Performance	DoP-20914130701

## Accessories

805590 Standard detector base for IQ8Quad



803374.EX

O<sup>2</sup>T 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 by interferences, e.g. from steam or dust. Due to its excellent detection characteristics, and enhanced false alarm management, the detector is also able to recognize TF1 and TF6 test fires, described in the standards. The O<sup>2</sup>T intelligent detector is also suitable for a higher operating temperature of up to +65 °C. Used when early and reliable fire detection is requested. 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 <sup>2</sup>
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
Declaration of Performance	DoP-20915130701

#### Accessories

805590 Standard detector base for IQ8Quad

## 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
Air humidity	< 95 % (non-condensing)
Type of protection	IP 20
Weight	approx. 100 g
Specification	EN 54-18:2005
Dimensions	W: 20 mm H: 107 mm D: 115 mm



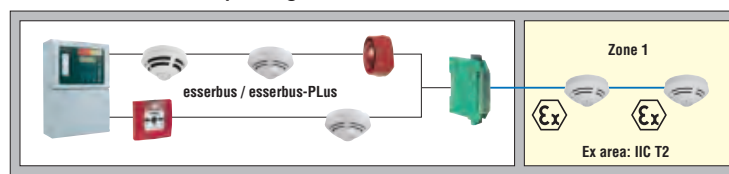
A safety barrier does not replace an overvoltage protection according to IEC 801, DIN VDE 0185 and 0855.

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)	-20 °C ... 60 °C
Air humidity	< 95 % (non-condensing)
Dimensions	W: 12.5 mm H: 115 mm D: 110 mm

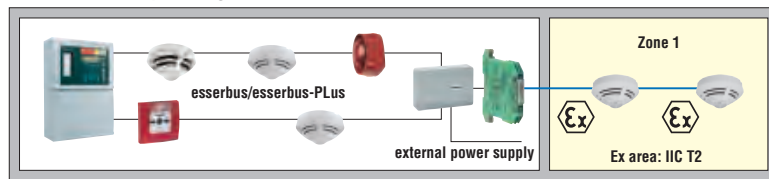


A safety barrier does not replace an overvoltage protection according to IEC 801, DIN VDE 0185 and 0855. VdS approval is not required.

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)



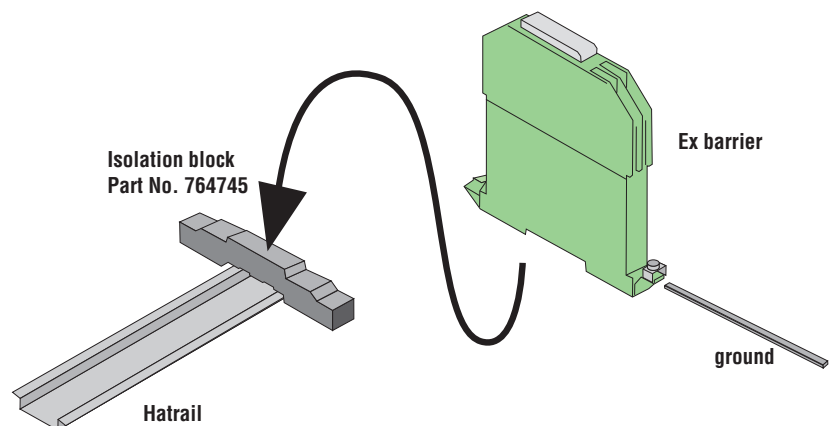
esserbus transponder 4 zone/2 relay

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

## 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 <sup>2</sup>
Application temperature	-20 °C ... 72 °C
Storage temperature	-25 °C ... 75 °C
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 mm<sup>2</sup> - 2.5 mm<sup>2</sup>) can be mounted on the detector base.

## 805591

## Detector base with relay contact for IQ8Quad



## Features

- Provides a voltage-free contact controlled by the remote output of a detector
- Draws negligible current
- 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 <sup>2</sup>
Application temperature	-20 °C ... 72 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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 mm<sup>2</sup> - 2.5 mm<sup>2</sup>) 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 IQ8Quad, ES Detect

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

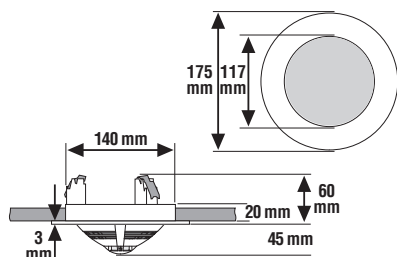
## Flush mount kit for base IQ8Quad



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
Air humidity	< 95 % (non-condensing)
Type of protection	IP 40
Material	ABS, plastic
Color	white, similar to RAL 9010
Weight	approx. 165 g (with surface ring)



Application example



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. Take note, the label plate Part No. 805576 is not applicable.

**Technical Data**

Material	ABS plastic
Color	white, similar to RAL 9010
Dimensions	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

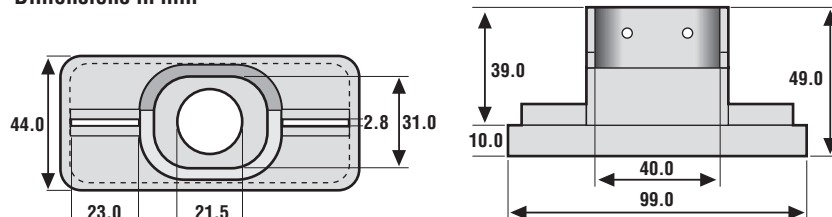
**Mounting adapter for intermediate ceilings**

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
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 10 pieces

**Dimensions in mm**

Application examples for fixing of the cables, rigid/flexible cable inlays and threaded cable connections

805570

**IP43 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
Dimensions	Ø: 117 mm H: 3 mm

 10 pcs

805572.50

**IP43 damp room base adapter for IQ8Quad, ES Detect detector base**

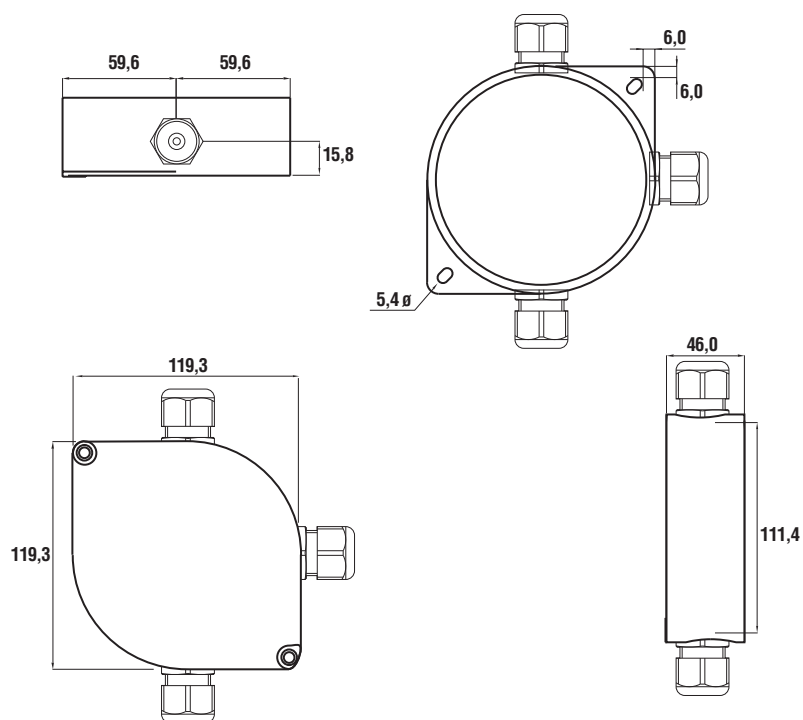
The damp room socket adapter was designed specifically for the surface mounted cable feed through cable protection pipes and has three breakthrough inputs for cable glands (optional). Suitable for IQ8Quad and ES Detect detector base.

**Technical Data**

Type of protection	IP43
Material	ABS
Color	white, similar to RAL 9010



Please follow the installation instructions on the adapter!  
 Substitute for Part No. 805572  
 Cable glands (Part No. 704147, 704148) are not included.



Application example (labeling field and cable glands optional)

805573

**IP43 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

**EMV isolator for IQ8Quad, ES Detect 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



Application example

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**

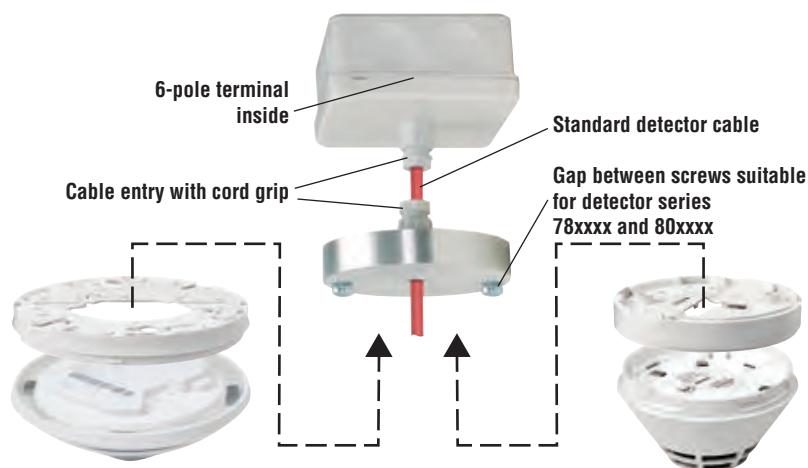
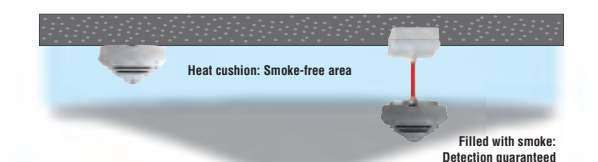
Material	ABS plastic
Installation	attached to the zone cable
Color	white, similar to RAL 9010
Dimensions	Ø: 84 mm H: 15 mm (aluminum-stabilizer)



It is not possible to use telescopic rods.  
Not suitable for series 3000.



As shown in the left picture



Detector base can be equipped with  
IP protection 805570 or 805573

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

850054

**Special painting IQ8Quad detector base**

The IQ8 detector base is painted and delivered according to the required RAL color.  
For identical colors, we suggest to order a suitable number for serial purposes.



When ordering please specify:  
- RAL code  
- Glossy, semi-matt, matt finishing

850055

**Special painting IQ8Quad**

As 850054, but for automatic detectors of the IQ8Quad series.

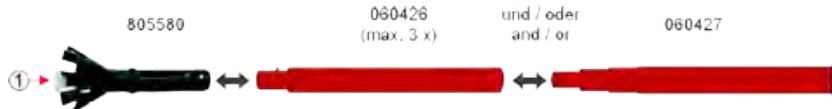
## Testequipment for Several Detector Series

### 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.

### 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	Fiberglass
Length	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

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	Fiberglass
Length	4.5 m

**Features**

- Length of 1.26 m in retracted state
- 4 segments, lockable

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**

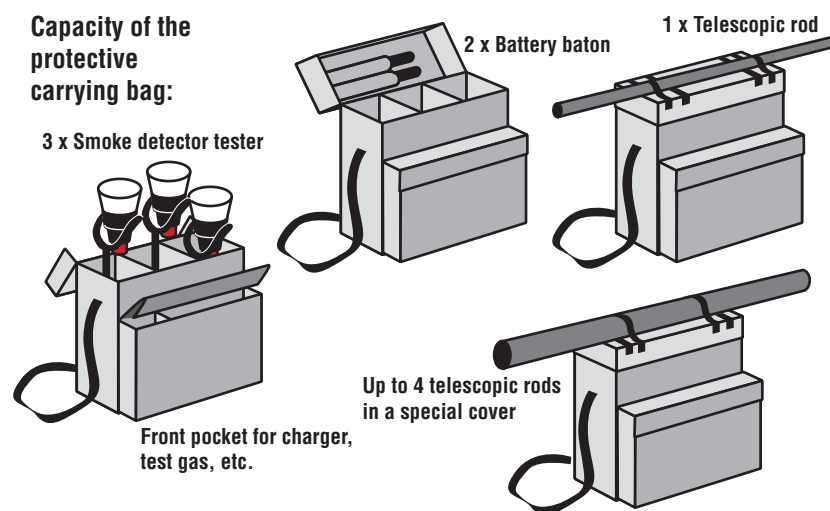
Dimensions	W: 480 mm H: 420 mm D: 260 mm (carrying bag)
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1 x Carrying bag and 1 x cover for telescopic rods/extensions

**Features**

- Exterior lid with Velcro fastening transportation straps for telescopic rod and extensions
- Inside lid with 2 storage compartments for battery packs 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



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: English, German, Spanish, French, Italian, Dutch, Swedish
- 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

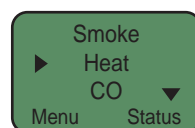
Battery charging	75-90 minutes
Heat detector response threshold	up to 90°C adjustable up to 100°C
Ambient temperature	5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Air humidity	< 85 % (non-condensing)



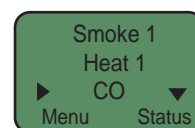
Detector tester kit Testifire 2001 consists of:  
Testing head, smoke capsule, CO capsule, 2 Ni-MH battery packs, charger

## Accessories

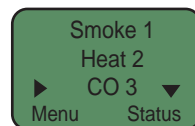
- 805552 Smoke capsule for multi-stimulus detector tester 805550/51
- 805553 CO capsule for multi-stimulus detector tester 805551 (Testifire TC3)
- 060426 Plastic telescopic extension
- 060427 Plastic telescopic rod
- 060431 Spare battery baton



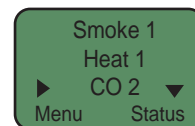
Example of testing with only one stimuli



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****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

**Multi-stimulus detector tester TF 1001**

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**

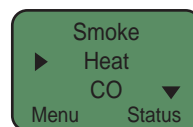
Battery charging	75-90 minutes
Heat detector response threshold	up to 90°C adjustable up to 100°C
Application temperature	5 °C ... 45 °C
Storage temperature	-10 °C ... 50 °C
Air humidity	< 85 % (non-condensing)



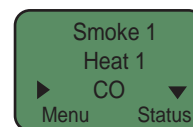
Detector tester kit TF 1001 consists of:  
Testing head, smoke capsule, 2 Ni-MH battery packs, charger

**Accessories**

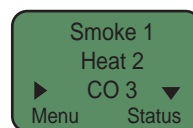
- 805552 Smoke capsule for multi-stimulus detector tester 805550/51  
 060426 Plastic telescopic extension  
 060427 Plastic telescopic rod  
 060431 Spare battery baton



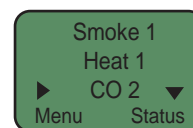
Example of testing with only one stimuli



Example of a simultaneous testing (smoke + heat at the same time)

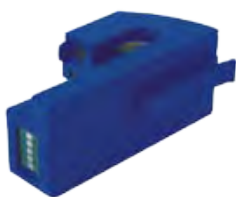


Example of sequential testing (all criteria successively)



Example of combination of simultaneous and sequential testing

Selection of different test criteria displayed

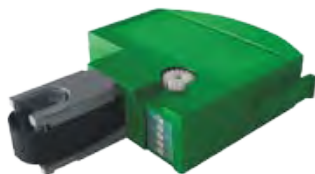
**805552****Features**

- 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

**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.

805553

**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

**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 multisensor 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.

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

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)
---------	---------------------



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)

805584

**Test gas for smoke detector tester 805582**

For all IQ8Quad, ES Detect and series 9x00 detectors, suitable for smoke detector tester 805582.

**Technical Data**

Content	250 ml (per bottle)
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Also suitable for ionization detector of the 9000, 9100 and 9200 series. These are considered dangerous goods (aerosols/gases, flammable, UN1950). Substitute for Item No. 060430.10

805585

**Smokesabre test gas for smoke detectors**

Smokesabre is a test gas and manual testing device in one. The test gas is passed through the extensible pipe, which also serves to increase the range for the detector. Facilitates the triggering of smoke alarms in confined spaces, such as false ceilings/floors and is also applicable to low ceiling heights.

Suitable for all detectors of the series IQ8Quad, ES Detect, 9x00 and smoke extraction systems.

**Technical Data**

Content	150 ml (per bottle)
Dimensions	L: 193 mm
	L: 335 mm (with pulled-pipe)



Also suitable for ionization detector of the 9000, 9100 and 9200 series. These are considered dangerous goods (aerosols/gases, flammable, UN1950).



12 pieces



Application example

060429

Test head for heat detector together with battery and 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

### 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

### 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.

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

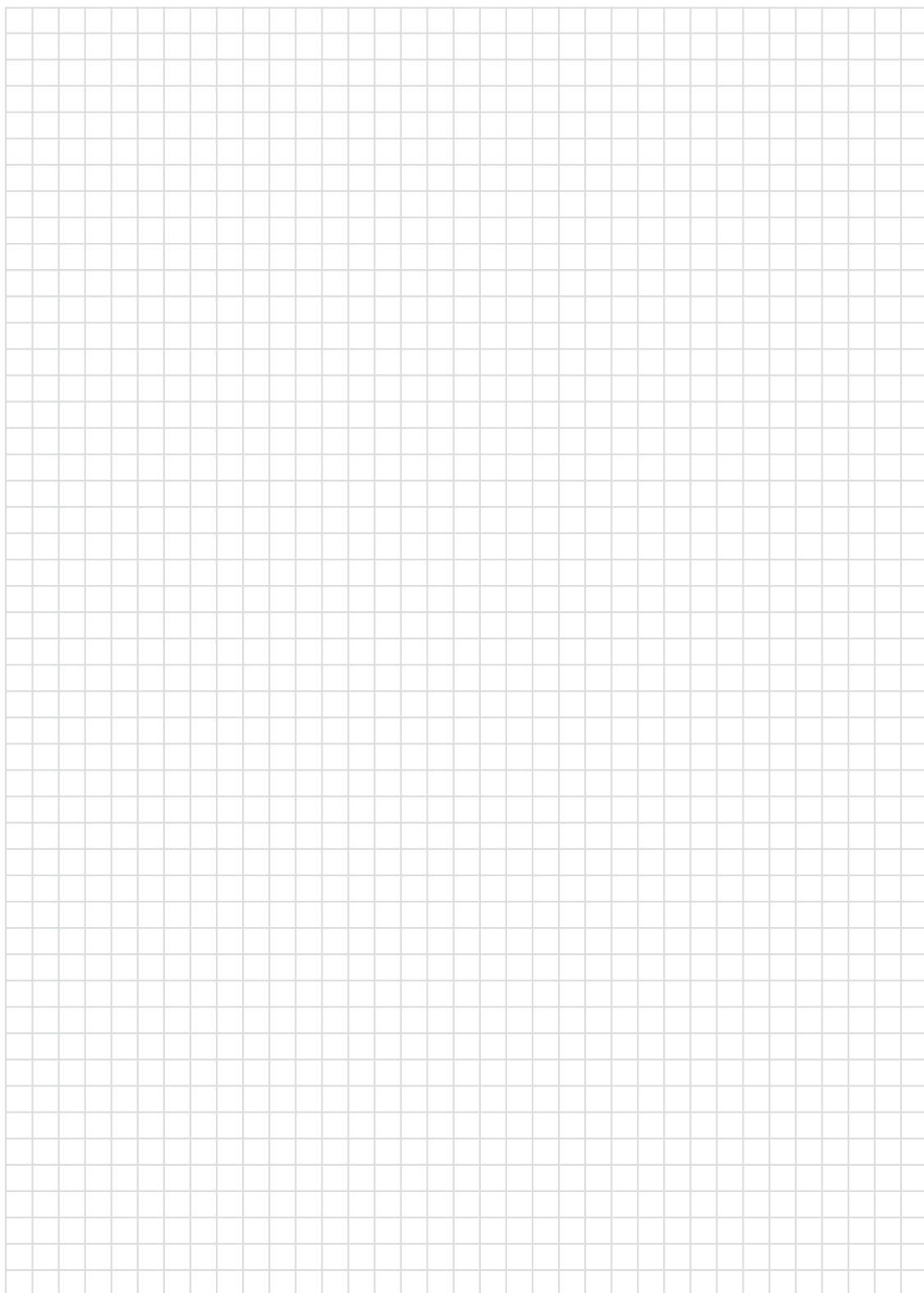


6 pcs. smoke pellets

### Features

- 40 sec. burning-time per smoke pellet
- 18 m<sup>3</sup> smoke produced per smoke pellet

## Notes

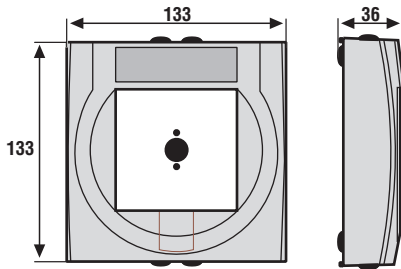




## Manual Call Points

Large Design (ABS)	98-101
Large Design (Aluminum)	102-103
Accessories for MCP large design	104-107
Small Design (ABS)	108-114
Accessories for MCP small design	115-116
Special Design	117-122





### Features

- Slimline design
- Low power consumption
- 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.

**i** 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 mm<sup>2</sup> - 1.5 mm<sup>2</sup>) or 273-104 (0.75 mm<sup>2</sup> - 2.5 mm<sup>2</sup>) 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	IP 44
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 (Part No. 704910)  
Plastic key (Part No. 769910)

**Accessories**

- 704910 Spare glass for manual call points
- 769910 Plastic spare key
- 769911 Metal key for large MCP
- 769916 Service key
- 704917 Option IP 55 shrink sleeve for large MCP 80490x
- 704911 Universal foil for large MCP housing ABS

**704900****MCP housing large 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
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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.

**704901****MCP housing large 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****MCP housing large 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****MCP housing large with glass pane, orange, similar to RAL 2011**

Labeling foil set (black) for various international applications.

**704904****MCP housing large with glass pane, green, similar to RAL 6002**

Labeling foil set (white) for various international applications.

## Electronic Modules - Conventional

**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 <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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.

**Technical Data**

Declaration of Performance	DoP-20482130701
----------------------------	-----------------

 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
Declaration of Performance	DoP-20482130701

 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.

**Technical Data**

Declaration of Performance	DoP-20195130701
----------------------------	-----------------

 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 - Addressable

**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 <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 44 (in housing), IP 55 (with accessory)
Housing	PC ASA plastic
Weight	approx. 236 g (in housing)
Detector specification	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	EN 54-11, typ B
Declaration of Performance	DoP-20489130701

804906

**IQ8MCP electronic module w/o isolator, 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
Declaration of Performance	DoP-20488130701



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.

## 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



### MCP housing ALU, large, glass pane

Printed with pictograms in accordance with EN 54-11.

### Technical Data

Color	red, similar to RAL 3000
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704804

### MCP housing with glass, print: house alarm

### Technical Data

Color	red, similar to RAL 3000
-------	--------------------------

704854

### MCP housing with glass, print: house alarm

### Technical Data

Color	blue, similar to RAL 5009
-------	---------------------------

## Neutral Housings w/o Print

704870

### MCP housing ALU, large, neutral

### Technical Data

Color	yellow, similar to RAL 1018
-------	-----------------------------

## Electronic Modules for Series 9000

704477.10

Conventional MCP electronic module with 2nd micro-switch, Series 9000



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 <sup>2</sup>
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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
Declaration of Performance	DoP-20478130701

## Electronic Module for Series 9200

804473.10

Addressable MCP electronic module with zone isolator, Series 9200



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 <sup>2</sup>
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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
Declaration of Performance	DoP-20481130701



704910

## Spare glass pane for MCP housing 70490x, 7048xx und 761694



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



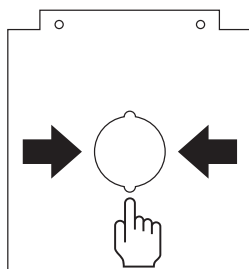
Plastic sign for all Part No. 7047xx, 7048xx and 70490x manual call points (large design).

### Technical Data

Dimensions W: 80 mm H: 80 mm

704915

## Operating 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

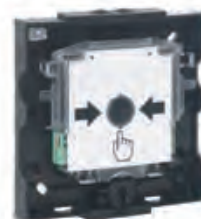
 10 pcs.



MCP "Out of order"



Easy to maintain the change of condition by turning the operating foil.



MCP "Ready for use"

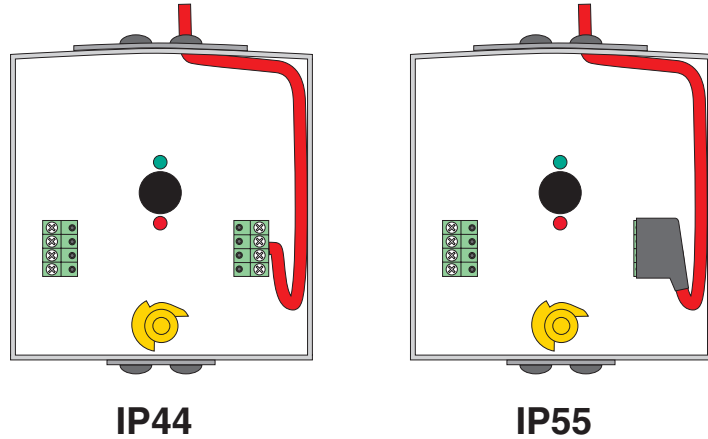
Application example



704917

**Option IP55 shrink sleeve for large MCP 80490x**

10 shrink sleeves for clamp terminals to increase protection class to IP55.

 10 pcs


Application example without (IP44) and with (IP55) shrink sleeve

704911

**Front foil with universal text for large MCP ABS, white lettering**

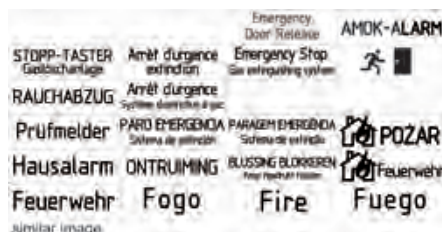
similar image

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

**Foil for front face with universal text for large MCP ABS, black lettering**

similar image

As 704911, but with black imprint.

 10 pcs

704070

**IP54 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





## Features

- Easy to install

## 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



Application example

781694

Protective cover for manual call points, English

Same as 781693, but English.

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

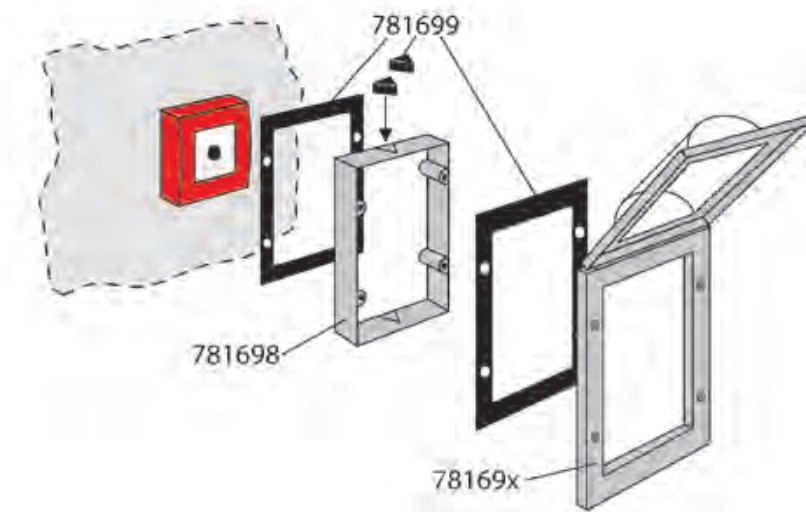
 Accessory for installation

781699

IP55 kit for protective cover

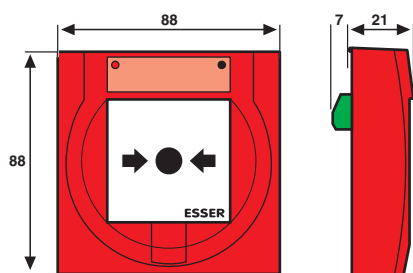


Mounting kit - self-adhesive sealing kit for protective cover (Part No. 781693, 781694) and an increased protection level from IP 44 to IP 55.



Application example

## Small Design (ABS)



### Features

- Slimline design
- Low power consumption
- 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 - Conventional

804970

Conventional MCP compact, small, red, glass pane



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 <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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
Declaration of Performance	DoP-20486130701



- 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

**IQ8MCP compact, small, red, with isolator and glass pane****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 <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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)
Declaration of Performance	DoP-20492130701



- 1 x Glass pane 704960
- 1 x Key 704966
- 1 x Multilingual paper labels with "Out of order" pictogram

**Accessories**

704980 Surface mount housing

804973

**IQ8MCP compact, small, red, with resettable element****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 <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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

804961

IQ8MCP compact IP 66, small, red, with isolator glass pane



### 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 <sup>2</sup> (AWG 30-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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)

## 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

**Technical Data**

Declaration of Performance	DoP-20492130701
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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.



## 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.

## Electronic Modules - Conventional

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 $\mu$ A
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 <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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)
Declaration of Performance	DoP-20486130701



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

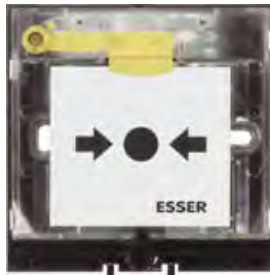
Operating voltage	8 ... 30 V DC
Quiescent current @ 9 V DC	approx. 0 $\mu$ A
Alarm current @ 9 V DC	typ. 9 mA
Contact load	30 V DC/1 A
No. of detector/zone	max. 10 detectors per loop (as per VdS)
Alarm display	LED, red and yellow flag
Connection terminal	max. 2,5 mm <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 43 (in housing), IP 55 with cover 704965
Weight	approx. 78 g
Declaration of Performance	DoP-20485130701

Electronic Modules - Addressable

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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 <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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
Declaration of Performance	DoP-20492130701



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 <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP43 (in housing), IP 55 with cover 704965
Weight	approx. 78 g

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

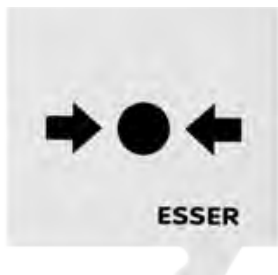


To indicate that the detector is "Out-of-order" the operator has a corresponding pictogram on the reverse side.



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

Declaration of Performance

DoP-20492130701



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

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.

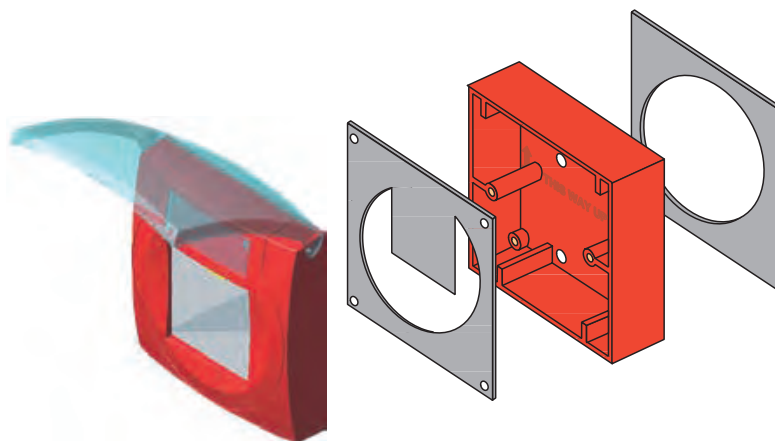
### Technical Data

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



Plastic key, red, suitable for small manual alarm units.



10 pcs

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

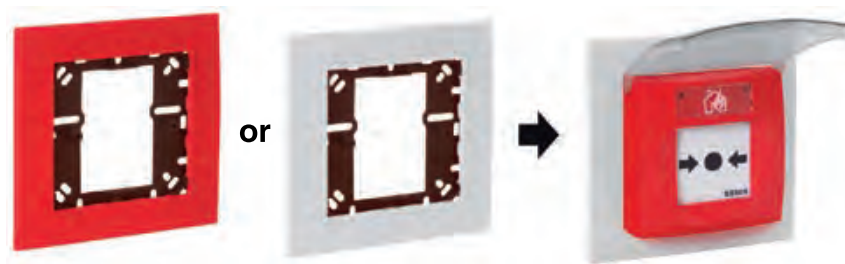
red, similar to RAL 3020  
white, similar to RAL 9010

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

761694

**Addressable MCP, IP66**

Approval: G 209190

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 <sup>2</sup>
Application temperature	-20 °C ... 70 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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
Declaration of Performance	DoP-20882130701



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

W1A-R1K0SG-U007-01

**Manual call point IP67, small housing, red****Features**

- Sealed to IP 67
- Unique 'plug and play' installation concept
- Anti-tamper facility
- Enhanced aesthetics and compact design
- Approved to EN 54-11

The outdoor MCP is an IP 67 sealed product. The enhanced environmental protection allows the unit to be installed in many external environments where water and dirt are likely to be present, making it a true waterproof and outdoor product.

The manual call point has a unique 'plug and play' concept designed specifically to reduce installation time. The product utilizes a special terminal block, where all initial installation cabling is terminated. This terminal block is then simply connected to the back of the MCP. The housing is supplied with three standard 20mm knock outs for cable entries, accommodating all types of surface wiring installations.

The MCP also helps to preserve the integrity of the overall system as illegal removal of the product lid will result in the call point operating and the system triggering an alarm.

**Technical Data**

Application temperature	-30 °C ... 70 °C
Storage temperature	-30 °C ... 70 °C
Air humidity	< 95 % non condensing
Type of protection	IP 67
Material	PC/ABS
Weight	approx. 240 g
Detector specification	EN 54-11
Dimensions	W: 97.5 mm H: 93 mm D: 71 mm



1 x Cable gland included

**Accessories**

MUS155 Spare glass pane (5 pcs)  
SC070 Spare key  
PS200 Plastic cover

## Manual Call Points Intrinsically Safe

W1A-R1K0SG-E019-81

Ex manual call point IP67, small housing, red



### Features

- Sealed to IP67
- Unique 'plug and play' installation concept
- Anti-tamper facility
- Enhanced aesthetics and compact design
- Approved to EN 54-11

Approval: LPCB, ATEX

The Ex MCP is built especially for installation in hazardous areas. It is intended for outdoor use within intrinsically safe systems using suitable barriers.

The outdoor MCP is an IP 67 sealed product. The enhanced environmental protection allows the unit to be installed in many external environments where water and dirt are likely to be present, making it a true waterproof and outdoor product.

The manual call point has a unique 'plug and play' concept designed specifically to reduce installation time. The product utilizes a special terminal block, where all initial installation cabling is terminated. This terminal block is then simply connected to the back of the MCP. The housing is supplied with three standard 20mm knock outs for cable entries, accommodating all types of surface wiring installations.

The MCP also helps to preserve the integrity of the overall system as illegal removal of the product lid will result in the call point operating and the system triggering an alarm.

### Technical Data

Application temperature	-25 °C ... 70 °C
Storage temperature	-25 °C ... 70 °C
Air humidity	< 93 % ±3% non condensing
Type of protection	IP67
Material	PC/ABS
Weight	approx. 350 g
Detector specification	EN 54-11
ATEX certificate	Sira 06ATEX2131X
Ex-category	II 1GD EEXiaIICT
Dimensions	W: 97.5 mm H: 93 mm D: 71 mm



! Attention – cable glands not included in delivery.

### Accessories

706031 Spare glass plane (5 pcs)  
 706032 Spare key  
 706033 Plastic cover  
 764744 Ex-barrier



804960.EX

Small Conventional MCP Ex (i) IP 66/67, red with glass pane

**NEW**

### Features

- High IP protection class IP66 & IP67
- Triple key function (test, open, reset)
- Plug-in terminals
- "Out of Order" indication of an inoperative alarm by flipping over the glass pane

Approval: G 214115

The small compact version has detector housing, surface mount housing, transparent cover, and alarm indicator. For connection to a conventional zone for use in ex-areas. Suitable for use in damp rooms thanks to the high IP 66/67 IP protection. Surface mounting housing is provided with break-out cable entries for M20 cable glands (optional) for easy installation.

### Technical Data

#### Data according to ATEX:

Max. Input Voltage (Ui)	21 V DC
Max. Input current (Ii)	252 mA
Ambient temperature (Ta)	-20 °C ... 70 °C
EC-type examination certificate	TÜV 14 ATEX 150860
Ex-category	II 2G (with Ex barrier Part-No. 764744 / 804744)
Explosion protection	Ex ib IIC T4 Gb
Specification	EN 60079-0:2012 + A11:2013 / -11:2012

#### Common technical data:

Operating voltage	8 ... 30 V DC
Alarm current @ 9 V DC	typ. 9 mA
Alarm display	red LED and yellow actuation indicator
Connection terminal	max. 1,5 mm <sup>2</sup> (AWG 30-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-20 °C ... 70 °C
Air humidity	< 95 % (non condensing)
Type of protection	IP66, IP67
Material	PC ASA plastic
Weight	approx. 255 g
Color	red, similar to RAL 3020
Detector specification	EN 54-11 : 2001 + A1:2005, Typ A
Dimensions	W: 88 mm H: 88 mm D: 63 mm (w. surface mount h.)
Declaration of Performance	DoP-21415141219



Use M20 cable glands with 15 mm connecting thread length and sealing ring, e.g. blueglobe by Pflitsch (cable gland Part No.: bg 820PA/sealing ring Part No.: DRF 220).

For detailed information on installation and operation, see documentation Part No. 798920.

For operation with standard groups ex-barrier Part No. 764744 must be used in zone 1 and zone 2!



- 1 x glass pane 704960
- 1 x key 704966
- 1 x surface mounting housing
- 1 x transparent cover

804920.EX

**NEW**

### Features

- High IP protection up to IP55
- Plug-in terminals
- Standard keys with double function: Open, reset
- Service key with triple function: Test, open, reset
- "Out of Order" marking an inoperative detector by turning the enclosed operating front foil

### Large Conventional MCP Ex (i) IP 66/67, red with glass pane

Approval: G 214113

Standard large intrinsically safe MCP, consisting of electronic module and detector housing, for connection to a conventional zone, especially for use in hazardous areas. Suitable due to the high IP protection up to IP 55 for use in damp rooms.

### Technical Data

#### Data according to ATEX:

Max. Input Voltage (Ui)	21 V DC
Max. Input current (Ii)	252 mA
Ambient temperature (Ta)	-20 °C ... 70 °C
EC-type examination certificate	TÜV 14 ATEX 150860
Ex-category	II 2G (with Ex barrier Part-No. 764744 / 804744)
Explosion protection Specification	Ex ib IIC T4 Gb
	EN 60079-0:2012 + A11:2013 / -11:2012

#### Common technical data:

Operating voltage	8 ... 30 V DC
Alarm current @ 9 V DC	typ. 9 mA
Alarm display	LED, red
Connection terminal	max. 1,5 mm <sup>2</sup> (AWG 30-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non condensing)
Type of protection	IP44, IP55 with shrink sleeve
Material	PC ASA plastic
Weight	approx. 236 g (in housing)
Color	red, similar to RAL 3020
Detector specification	EN 54-11: 2001 + A1:2005, Typ A
Dimensions	W: 133 mm H: 133 mm D: 36 mm
Declaration of Performance	DoP-21415141219



For detailed information on installation and operation, see documentation part no. 798920. For operation with standard groups ex-barrier item no. 764744 must be used in zone 1 and zone 2!



- 1 x glass pane 704960
- 1 x key 769910
- 1 x Manual call point housing, red
- 1 x IP 55 shrink sleeve

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 <sup>2</sup>
Application temperature	-55 °C ... 65 °C
	-55 °C ... 85 °C (T5)
Storage temperature	-55 °C ... 85 °C
Air humidity	< 95 % (non-condensing)
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



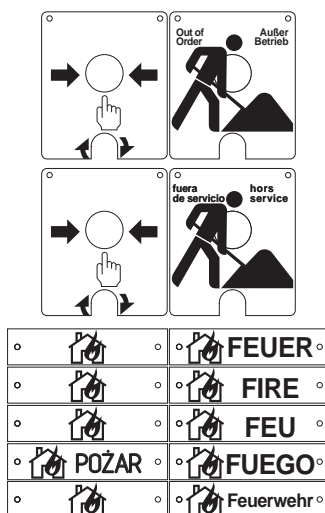
Please note, an Allen key (size 4) is needed for opening and resetting the MCP, and is not included in the scope of delivery.



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

### PS200



### Transparent cover for MCP

Spare transparent cover for addressable manual points.

### SC070



### Spare keys pack for MCP

10 spare keys for addressable MCP. The MCP key is used to open, reset and test the MCPs.



10 pieces



Transponders / Input & Output Modules

esserbus

124-135

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 with low power consumption 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, anyway how much inputs or outputs are switched - i.e. in case that more than one input/output per device is needed, this feature reduces the quantity of transponders needed!**



808623

esserbus alarm transponder, 4 IN/2 OUT with isolator



### Features

- Only one loop address is needed per transponder
- Digital inputs
- Integrated loop isolator
- Conventional connection of standard fire detectors and signaling devices
- Loop monitoring in compliance with EN 54-13
- Integrated loop isolator
- 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
Dimensions	W: 82 mm H: 72 mm D: 20 mm
Declaration of Performance	DoP-21057130701



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



808623.10

esserbuss transponder for UniVario with isolator



### Features

- Only one loop address is needed per transponder
- Digital input
- Loop monitoring in compliance with EN 54-13
- Integrated loop isolator
- 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
Dimensions	W: 82 mm H: 72 mm D: 20 mm
Declaration of Performance	DoP-21057130701



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

808621

**NEW**

### Features

- Module for controlling and monitoring fire protection devices
- Power supply via the field bus esserbus
- Output switching load up to 230 V AC / 16 A
- Programmable run-time monitoring
- Configurable fail safe functionality
- Manual output activation at transponder
- Robust IP 65 protected surface mount housing
- Silicone cable entries for fast installation

### esserbus transponder IQ8FCT LP

Approval: VdS G 209138

The IQ8FCT LP is used to control and monitor external fire control devices like fire dampers or as a technical alarm component (TAL) to monitor an external contact and control external load. The transponder is connected on the esserbus/esserbus-Plus loop of fire control system FlexES Control and IQ8Control.

#### FCT functionality

In this function a fire control device e.g. fire damper is connected to the relay output of the IQ8FCT LP and controlled according to the programming with configured runtime. Via the input the end positions of this external device are monitored. If the external device is leaving the set position e.g. at a power loss or is stuck a failure is recognized and indicated at the IQ8FCT LP and the fire control panel. The IQ8FCT LP is also equipped with configurable fail save functionality. If enabled, a communication loss with control panel results in automatic selfactivation of relay output.

#### TAL functionality

Here an external contact can be connected and monitored via the input of the IQ8FCT LP. In case of an activation of this contact, the address and programmed additional text of the corresponding technical alarm module IQ8FCT LP will be displayed.

#### Technical Data

Operating voltage	14 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 mA
Relay contact	max. 16 A resistive or 8 A inductive load of 230 V AC or 30 V DC surge resistance 250 A @ 10 ms potential-free or voltage switching / COM/NO/NC
Input monitoring (at use of external resistors)	FCT mode: 1 k / 6 k8 / 10 k
Input line length	TAL mode: 1 k / 10 k (NO) or 6 k8 / 10 k (NC)
System limitations	500 m
Input / loop terminals	max. 127 pieces per loop
Relay contact / power supply terminals	max. 2,5 mm <sup>2</sup> (AWG 26-14)
Ambient temperature	max. 6 mm <sup>2</sup> (AWG 30-10)
Storage temperature	-20 °C ... 70 °C
Air humidity	-30 °C ... 75 °C
Type of protection	< 95 % (non-condensing)
Color	IP65
Weight	gray, similar to RAL 7035
Dimensions	approx. 250 g
Declaration of Performance	W: 150 mm H: 116 mm D: 67 mm
	DoP-20792130701

#### Accessories

804870 **Alarm and monitoring module for IQ8TAM**

808606

**NEW**

### Features

- Module for controlling and monitoring fire protection devices
- Compatible with FlexES Control and IQ8Control
- Power supply via the field bus esserbus
- Integrated loop isolator
- Programmable run-time monitoring (fire dampers)
- Space-saving installation due to compact design
- Installation on hat rail 35 mm
- Optional housing for surface mounting

### esserbus transponder IQ8FCT XS

Approval: VdS G 209138

The IQ8FCT XS can be used to control and monitor external fire protection devices like fire dampers or as a technical alarm module (TAL) to monitor an external contact and control external load.

The transponder is connected on the esserbus® /esserbus®-PLus loop of fire control system FlexES Control and IQ8Control.

#### FCT functionality

In this function a fire control device e.g. fire damper will be connected to the relay output of the IQ8FCT XS and controlled according to the programming with configured runtime. Via the input the end positions of this external device are monitored. If the external device is leaving the set position e.g. at a power loss or is stuck a failure is recognized and indicated at the IQ8FCT XS and the fire control panel.

#### TAL functionality

Here an external contact can be connected and monitored via the input of the IQ8FCT XS. In case of an activation of this contact, the address and programmed additional text of the corresponding technical alarm module IQ8FCT XS will be displayed.

#### Technical Data

Operating voltage	14 ... 42 V DC
Quiescent current @ 19 V DC	approx. 45 mA
Relay contact	max. 1 A / 30 V DC ot AC potential-free / COM / NO / NC
Input monitoring	FCT mode: 1 k / 6 k8 / 10 k TAL mode: 1 k / 10 k (NO)
Input line length	500 m
System limitations	max. 127 pieces per loop
Input / loop terminals	max. 2,5 mm <sup>2</sup> (AWG 26-14)
Ambient temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP30 IP50 (w. housing M200SMB/SMB6-V0)
Color	gray, similar to RAL 7035
Weight	approx. 90 g approx. 250 g (w. housing M200SMB) approx. 790 g (w. housing SMB6-V0)
Dimensions	W: 90 mm H: 93 mm D: 93 mm W: 130 mm H: 143 mm D: 49 mm (w. h. M200SMB) W: 245 mm H: 180 mm D: 100 mm (w. h. SMB6-V0)
Declaration of Performance	DoP-20792130701

#### Accessories

804870 Alarm and monitoring module for IQ8TAM

M200SMB Surface mounting housing for one module

SMB6-V0 Surface mounting housing for 6 modules

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
Quiescent current @ 19 V DC	approx. 250 µA
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
Declaration of Performance	DoP-20611130701

External power supply is only optional – the transponder is fully operational with loop powering only.



### 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 opto-coupler 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
Declaration of Performance	DoP-20611130701

## 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

808615

esserbus communication transponder for ECP 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. With integrated loop isolator on board. Maximum 8 transponders per loop and max. 16 transponders per FACP.

## 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, O<sup>2</sup>T 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 O<sup>2</sup>T 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 O<sup>2</sup>T 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)
Declaration of Performance	DoP-20614130701



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



### 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

## esserbus transponder RZT, 24 V

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
Declaration of Performance	DoP-20615130701



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

## 808631.10



## esserbus transponder RZT, 12 V

Same as 808630.10, but rated voltage is 12 V DC, not configurable.

### Technical Data

Operating voltage	10.5 ... 13.8 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
Declaration of Performance	DoP-20615130701

### 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



## Accessories for esserbus Transponders

788612

### Loop isolator for transponder



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
Air humidity	< 95 % (non-condensing)
Type of protection	IP 50 (with housing)
Weight	approx. 10 g
Dimensions	W: 32 mm H: 20 mm D: 10 mm
Declaration of Performance	DoP-20611130701

808624

### EOL-O terminating device



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.

#### 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

808626

### EOL-I terminating device



The EOL-I 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

804870

### Alarm and monitoring module for IQ8FCT XS, IQ8FCT LP



An external, monitored contact can be connected to the terminals of the IQ8FCT XS or LP. In case of contact activation, the address and the programmed additional text of the corresponding IQ8FCT XS or LP will be displayed.



The max. cable length to the connected module must not exceed 500 meters!

## Technical Alarm Modules

804868

IQ8TAL with isolator, 1 contact 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. An external NO or NC may be connected to a single IQ8TAL. When an alarm is triggered the address and the programmed additional text of the IQ8TAL to which the contact is connected are displayed automatically. The integrated 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 IP 55 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 $\mu$ A
Contact load relay	30 V DC/AC/1 A
Operation indicator	green LED
Alarm display	red LED
Connection terminal	max. 2.5 mm <sup>2</sup> (AWG 26-14)
Application temperature	-20 °C ... 70 °C
Storage temperature	-30 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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)
Declaration of Performance	DoP-20792130701



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

704981

Surface mount housing for small MCP and TAL, blue, similar to RAL 5015



Blue, for small design electronic modules. Cable entry requires cable glands 704147, 704148.

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.

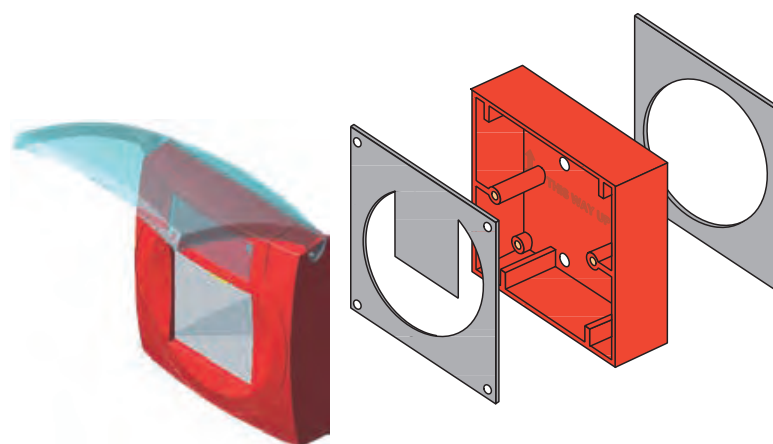
**Technical Data**

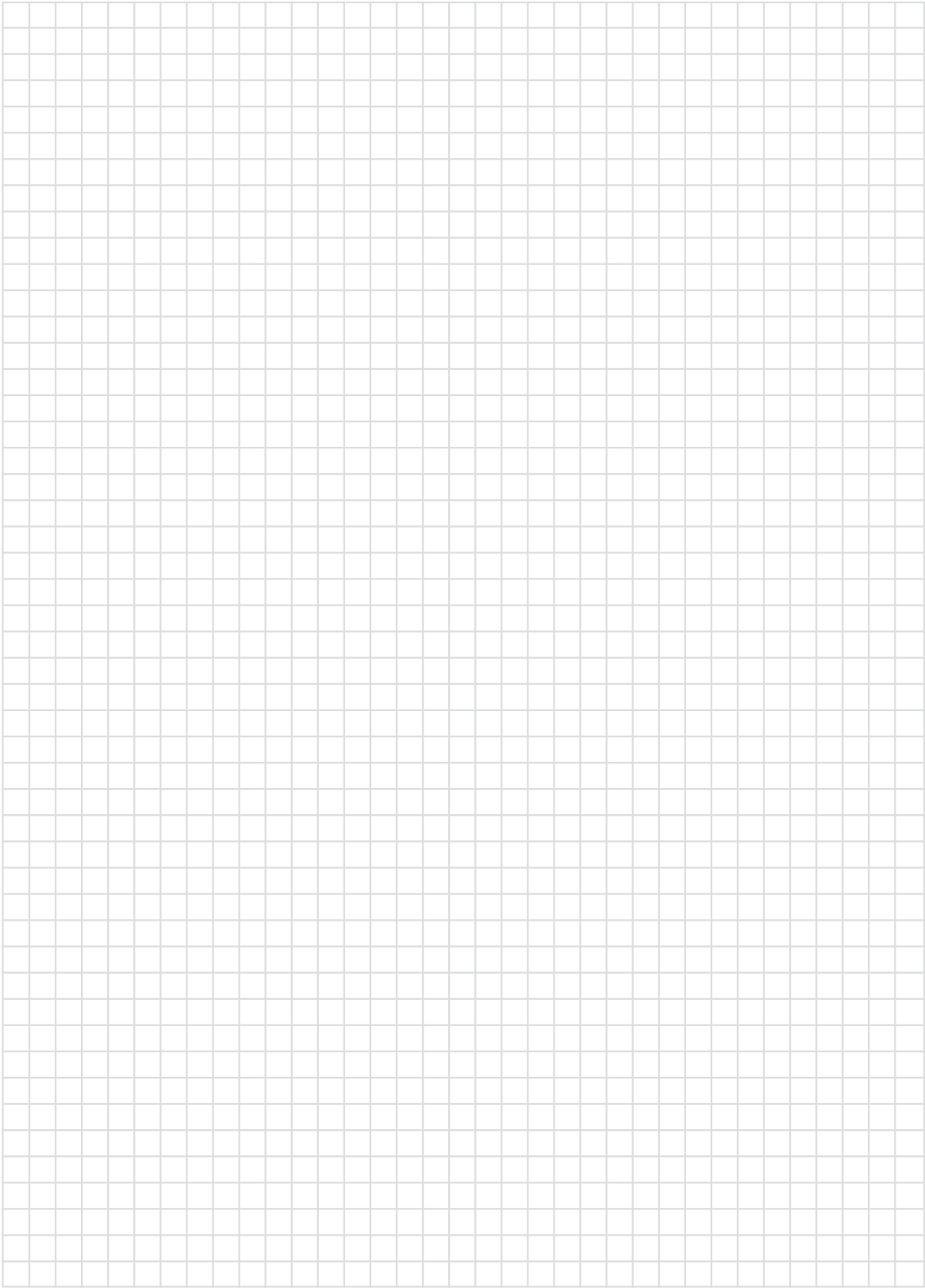
Type of protection

IP55



Cover and two neoprene seals







Wireless Components

Wireless Modules

138-144

### 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.

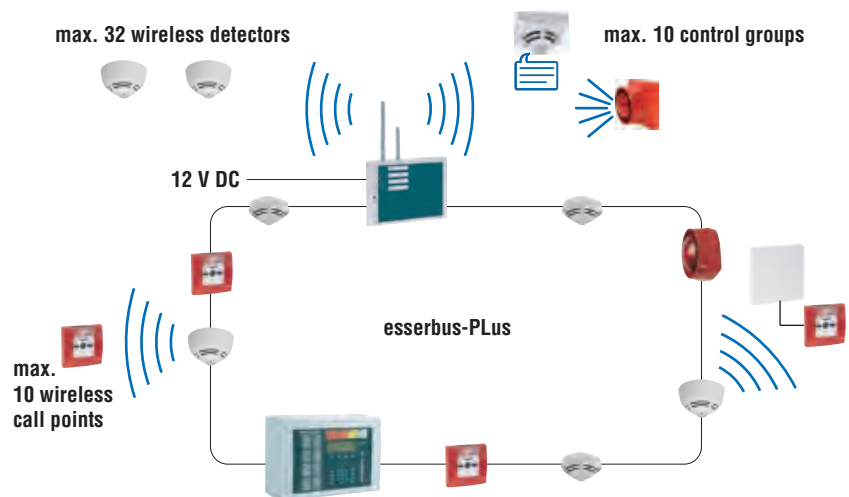
\* during allocation of the wireless components via wireless transponder

 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.

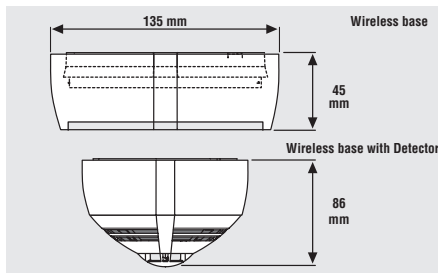
Using components like IQ8Alarm and IQ8Quad with integrated alarm devices the esserbus PPlus is needed.



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)
- O<sup>2</sup>T 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, O<sup>2</sup>T 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 % (non condensing)
Type of protection	IP 42
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)
Declaration of Performance	DoP-20622130701



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.

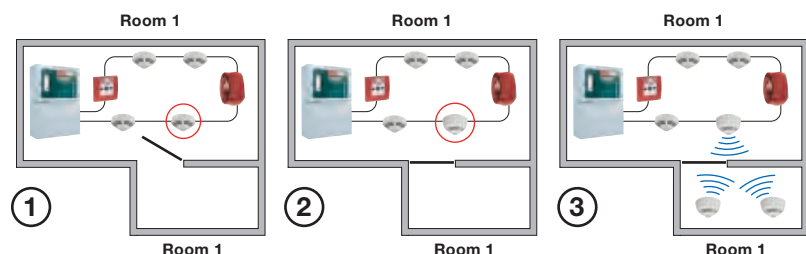
\*The battery operating time is dependent on the type of detector/device used, as well as the application temperature and additional surrounding conditions. It can be substantially restricted by increased current consumption of the wireless devices in the case of alarm, wireless interference or poor 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

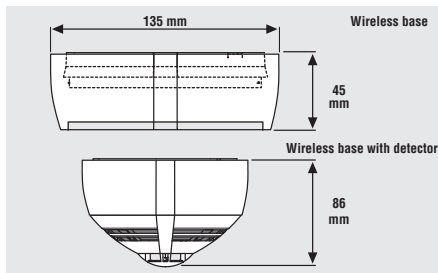


Expansion via IQ8Wireless gateway with IQ8Wireless detector base



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	IP 42
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)
Declaration of Performance	DoP-20620130701



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.



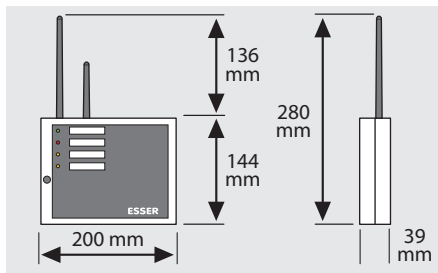
4 x 3.6 V lithium batteries (Part No. 805597)

## Accessories

805597 4 x 3.6 V lithium batteries

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.

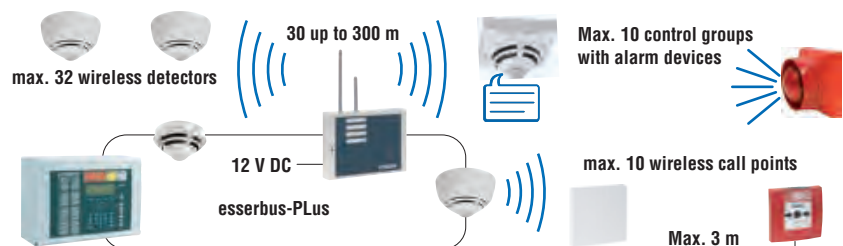
## Technical Data

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 % (non condensing)
Type of protection	IP 42
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)
Declaration of Performance	DoP-20621130701



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.



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	IP 42
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)
Declaration of Performance	DoP-20623130701

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).

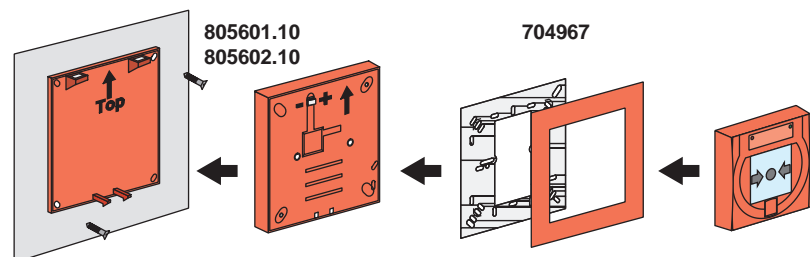
4 x 3.6 V lithium batteries (Part No. 805597)



## Accessories

704967 Mounting frame for small MCP

805603 IQ8Wireless-mounting frames for IQ8Alarm



Application example for large MCP

805602.10

**IQ8Wireless universal interface w/o cover, white**



Approval: VdS

As 805601.10, but white color.

## Accessories

704967 Mounting frame for small MCP

805603 IQ8Wireless-mounting frames for IQ8Alarm

805604 IQ8Wireless-mounting frames for IQ8Quad

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

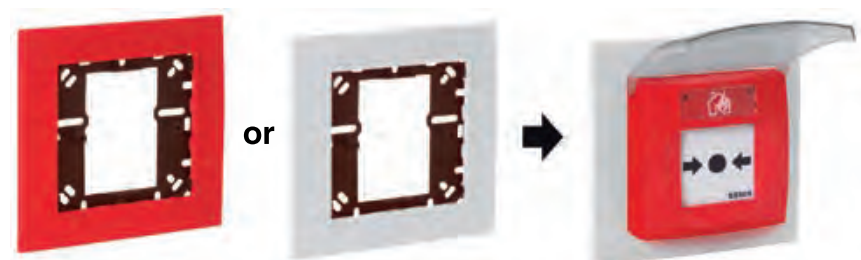
red, similar to RAL 3020

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

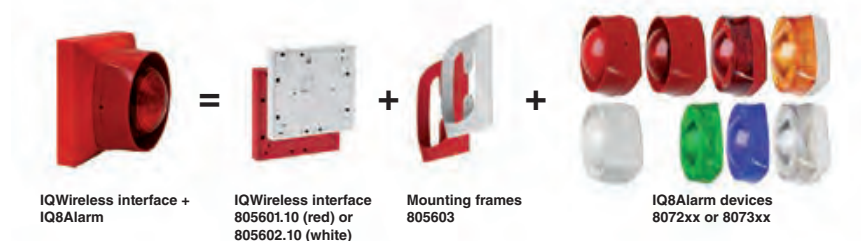
Weight

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



IQ8Wireless interface +  
IQ8Quad detector with  
integrated alarm device

IQ8Wireless interface  
805602.10

Mounting frame  
805604

Standard detector base  
805590

IQ8Quad detector  
with integrated  
alarm device  
80238x

Application example

805605

## IQ8Wireless cover for wireless interface, red and white

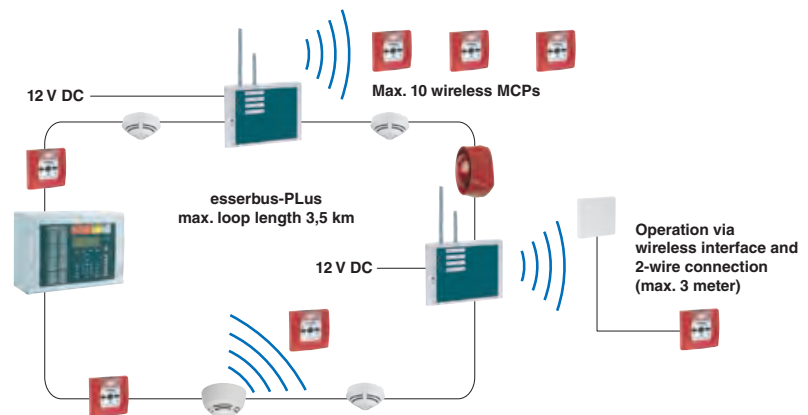


For applications in which the IQ8 components are not to be directly mounted (remote connection) on the IQ8Wireless interface Part No. 805601.10/805602.10, the wireless interface can be used with the filler panel.

### 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 Detectors

146-153

Air Duct Detectors

154-156

Linear Heat Detectors

157-163

Linear Smoke Detectors

164-171

Aspirating Smoke Detectors

172-188

## Flame Detectors

782311

### UV flame detector UniVario



#### Features

- Direct linking and voltage supply via standard detector group at the esserbus transponder (Part No. 808623.10)
- 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
- Easy testing with magnet via integrated reed switch

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 <sup>2</sup>
Height to be monitored	max. 45 m
Ambient temperature	-20 °C ... 80 °C
Storage temperature	-40 °C ... 85 °C
Air humidity	< 95 % (non-condensing)
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
Declaration of Performance	DoP-20567130701



Detector base and mounting bracket are not supplied!

782315

### Three-channel infrared flame detector UniVario



#### Features

- Direct linking and voltage supply via standard detector group at the esserbus transponder (Part No. 808623.10)
- Base installation and alignment via mounting bracket (Part No. 783312)
- 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
- Easy testing with magnet via integrated reed switch

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. 3.5 mA
Alarm current @ 9 V DC	typ. 21.8 mA
Area to be monitored	max. 676 m <sup>2</sup>
Height to be monitored	max. 45 m
Ambient temperature	-20 °C ... 80 °C
Storage temperature	-40 °C ... 85 °C
Air humidity	0 ... 95 % (non-condensing)
Type of protection	IP 67
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
Declaration of Performance	DoP-21055130701



Detector base and mounting bracket are not supplied!



## Heat Detectors

782310

### Heat detector UniVario



#### Features

- Direct linking and voltage supply via standard detector group at the esserbus transponder (Part No. 808623.10)
- Base installation and alignment via mounting bracket (Part No. 783312)
- 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 % (non-condensing)
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
Declaration of Performance	DoP-21053130701



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
Declaration of Performance	DoP-21054130701



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
--------	----------------



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
--------	----------------



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

## Intrinsically Safe Flame Detectors

## FS24X-911-23-6

**NEW**

## Features

- Patented WideBand IR™ technology
- Patented Electronic Frequency Analysis™
- Visible sensor for optimum false alarm rejection
- Selectable detection sensitivities
- Field-of-View: 90° cone-of-vision
- Dual microprocessors for reliable performance
- Real-time clock for accurate time dating of events
- FirePic™ — pre-fire event data storage
- Event log with date and time stamp
- RS-485 ModBus communication
- Non-Isolated 4-20 mA Analog output (sink or source)
- Alarm, Fault and Fire Verification relays
- Automatic Optical Path and Electronic self-test
- Patented Electronics Module for component protection with plug-in terminations for easy field installation
- Two M25 conduit entries
- Low power consumption
- High RFI and EMI immunity
- FM, ATEX, CE mark approvals
- CU-TR approved
- INMETRO approved
- Meets SIL 2 requirements
- Certified to EN54-10:2002
- FM 3260 performance
- Detects hydrocarbon and non-hydrocarbon fuel fires in all environmental conditions
- Wide operating temperature range
- Optimal false alarm rejection
- Minimal maintenance for trouble-free operation
- PC software and interface module (FSIM) for fault diagnostics real-time graphs (RTGs), and downloading of FirePics™ and event log
- Suitable for a wide variety of applications
- Easy electronics module replacement
- Test lamps for manual testing

## FS24X-911 3IR AL M25 FM/EN54

The FS24X multi-spectrum Triple IR (IR/IR/IR/Visible) Flame Detector, is one of the FSX family of advanced technology Electro-Optical fire and flame detectors. WideBand IR™, WideBand 4.3 micron IR™, and Visible detection technology with sophisticated software algorithms delivers the highest fire detection performance combined with optimal false alarm rejection. Unlike narrow-band detectors, the WideBand IR™ Infrared technology using high-speed solid-state Quantum sensors allows detection of most types of fires, hydrocarbon and non-hydrocarbon, in all weather conditions.

FS24X - Aluminium, M25, ATEX/IECEX, FM3260, EN54-10.

Advanced true triple IR Flame Detector for Hazardous Industrial areas.

## Visual Indicators:

Green LED: Power; Red LED: Alarm; Yellow LED: Fault

## Technical Data

Operating voltage	24 Vdc nominal (18-32 Vdc) - regulated
Field of view	90° cone of vision, ± 45° from on axis
Sensitivity	Very high (60m), high (45m), medium (30m) and low (15m) - switch selectable
Response time	3-5 Seconds to 0.1 m <sup>2</sup> (1 sq. ft.) n-Heptane fire at 30 m (100 ft.) 3-10 Seconds to 0.1 m <sup>2</sup> (1 sq. ft.) n-Heptane fire at 60 m (200 ft.)
Power Consumption	Operating: 56 mA @ 24 Vdc nominal Alarm: 106 mA @ 24 Vdc nominal Heater: 155 mA – additional Note: Heater will turn on at -17°C (0°F)
Output Relays	Fire Alarm: SPDT (NO / NC) – De-energised/energized, latching/non-latching Fault: SPST (NO) – De-energised, latching/non-latching Auxiliary: SPDT (NO / NC) – De-energised/energised, latching/non-latching Contacts rating: 1 amp @ 24 Vdc
Analog output	0 - 20 mA stepped - source or sink user selectable
Loop resistance	50 - 400 Ohms
Temperature range	Operating: -60°C to +85°C (-76°F to +185°F) Storage: -55°C to +110°C (-67°F to +230°F)
Vibration	Meets or exceeds MilSpec 810C Method 514.2, Curve AW12
Wiring	2.5 mm <sup>2</sup> (14 AWG) to 0.326 mm <sup>2</sup> (22 AWG); shielded cable recommended
Conduit entries	Two M25 conduit entries
Dimensions	W: 110,4 mm H: 124,2 mm D: 156,4 mm
Housing	Copper-free powder coated aluminum



Mounting bracket SM4 and cable glands FSX-25M25 have to be ordered separately.

## Accessories

SM4 Stainless Steel Swivel mounting assembly for FS24X, and FS20X detectors

PSU-12 Universal charger for Test Lamps and Interface Kits. For 110-240 VAC with international plugs

TL-2055 IR Test Lamp for testing FSX detectors, explosion proof version. Incl universal charger

TL-1055 IR Test Lamp for testing FSX detectors, non-explosion proof version. Incl universal charger

SH-001 Sunshield (316 Stainless Steel)

FSX-25M25 Cable gland

## FS24X-211-24-6

**NEW**

## FS24X-911 3IR SS M25 FM/EN54

As FS24X-911-23-6 but 316 stainless steel.

## FS20X-211-23-6

**NEW**



### Features

- Patented WideBand IR™ Infrared combined with Ultraviolet
- Detection range greater than 60 m (200 feet) to 0.1 m<sup>2</sup> (sq. ft.) heptane fire
- Patented Electronic Frequency Analysis
- Visible sensor for optimum false alarm rejection
- Selectable detection sensitivities
- Solar blind 90° field of view
- Dual microprocessors for reliable performance
- Real-time clock for accurate time dating of events
- FirePic™ — Up to 6 pre-fire event data storage
- Event log — Up to 200 events with date and time stamp
- Built-in RS-485 ModBus communication
- Built-in non-isolated 4-20 mA analog output (sink or source)
- Alarm, Fault and Fire Verification relays
- Automatic Optical Path and Electronic self-test
- Patented Electronics Module for component protection with plug-in terminations for easy field installation
- Two M25 conduit entries
- Low power consumption
- High RFI and EMI immunity
- FM hazardous area approved
- Ex d ATEX /IECEx approved
- CU-TR approved
- INMETRO approved
- Meets SIL 2 requirements
- Certified to EN54-10:2002
- FM 3260 performance
- Detects hydrocarbon and non-hydrocarbon fuel fires in all environmental conditions
- Wide operating temperature range
- Arc welding immunity
- False alarm rejection
- Minimal maintenance for trouble-free operation
- PC software and interface module (FSIM) for fault diagnostics real-time graphs (RTGs), and downloading of FirePics™ and event log
- Suitable for a wide variety of applications

## FS20X-211 IR/UV AL M25 FM/EN54

Based on the foundation of the highly successful and reliable SS4 detector, the FS20X detector represents a quantum leap in integrating Infrared and Ultraviolet sensing technologies. The FS20X is a multi-spectrum UV/Dual IR/VIS fire and flame detector with a proven UV solar-blind sensor.

The FS20X detector uses advanced algorithms for signal processing and fire and flame analysis to alarm to most fires in all industrial environmental conditions. If the detector's UV signal is degraded due to heavy smoke or a contaminated lens, the FS20X's patented WideBand IR™, Near Band IR and Visible sensors will still alarm to fire, albeit at a reduced sensitivity and slower response time.

The FS20X detector has a detection range in excess of 60 m (200 feet) (very high sensitivity setting) for the detection of a 0.1m<sup>2</sup> (one square-foot) n-Heptane reference fire and has a field of view with a greater volumetric coverage than most UV/IR detectors.

FS20X - Aluminium, M25, ATEX/IECEx, FM3260, EN54-10.

Advanced UV/Dual IR/VIS Flame Detector for Hazardous Industrial areas.

### Visual Indicators:

Green LED: Power; Red LED: Alarm; Yellow LED: Fault

### Technical Data

Operating voltage	24 Vdc nominal (18-32 Vdc) - regulated
Field of view	90° Horizontal Cone of vision, ± 45° from on axis
Sensitivity	Very high (60m), high (45m), medium (30m) and low (15m) - switch selectable
Response time	3-5 Seconds to 0.1 m <sup>2</sup> (1 sq. ft.) n-Heptane fire at 30 m (100 ft.) 3-10 Seconds to 0.1 m <sup>2</sup> (1 sq. ft.) n-Heptane fire at 60 m (200 ft.)
Power Consumption	24 Vdc nominal (18-32 Vdc) - regulated
Output Relays	Fire Alarm: SPDT (NO / NC) – De-energised/energized, latching/non-latching Fault: SPST (NO) – De-energised, latching/non-latching Auxiliary: SPDT (NO / NC) – De-energised/energised, latching/non-latching Contacts rating: 1 amp @ 24 Vdc
Analog output	0 - 20 mA stepped - source or sink user selectable
Loop resistance	50 - 400 Ohms
Temperature range	Operating: -40 to +85°C (-40 to +185°F) Storage: -55 to +110°C (-67 to +230°F)
Vibration	Meets or exceeds MilSpec 810C Method 514.2, Curve AW12
Wiring	2.5 mm <sup>2</sup> (14 AWG) to 0.326 mm <sup>2</sup> (22 AWG); shielded cable recommended
Conduit entries	Two M25 conduit entries
Dimensions	W: 110,4 mm H: 124,2 mm D: 156,4 mm
Housing	Copper-free powder coated aluminum



Mounting bracket SM4 and cable glands FSX-25M25 have to be ordered separately.

### Accessories

SM4 Stainless Steel Swivel mounting assembly for FS24X, and FS20X detectors

PSU-12 Universal charger for Test Lamps and Interface Kits. For 110-240 VAC with international plugs

TL-2055 IR Test Lamp for testing FSX detectors, explosion proof version. Incl universal charger

TL-1055 IR Test Lamp for testing FSX detectors, non-explosion proof version. Incl universal charger

SH-001 Sunshield (316 Stainless Steel)

FSX-25M25 Cable gland

## FS20X-211-24-6

**NEW**

## FS20X-211 IR/UV SS M25 FM/EN54

As FS20X-211-23-6 but 316 stainless steel.

## FSL100 Series Flame Detectors

### Features

- Indoor & outdoor use
- Range of UV, UVIR, IR3
- Zone 2/22 Ex proof
- Hydrocarbon and non-hydrocarbon sources
- Pressure compensation element, avoiding trapped moisture
- Lightweight GRP housing with no grounding required
- mA output
- Relay output
- Selection of relay set-up with DIP switches
- Ease of installation
- Swivel mounting with fine angle adjustment
- Light Mounting Bracket
- Entry Gland
- Advanced Test Lamp available

Approval: VdS, ATEX

The FSL100 Series of flame detectors from Honeywell delivers robust, fast and reliable detection of flaming fires in a wide range of applications. The range consists of UV, UVIR and IR3 flame detectors. All utilise sophisticated sensing and signal analysis to detect fires quickly while also rejecting false alarms. The FSL100 may be small and lightweight for easy installation but they are designed to work in tough environments both in and out of doors as well as potentially explosive atmospheres. With a large field of view they can detect a range of different types of fire including hydrocarbon and non hydrocarbon sources.

Available in UV, UVIR and 3IR to cover a wide range of industrial flame detection needs (please review applications sheet).

### Visual Indications:

Continuous green: normal operation

Continuous yellow: fault

Flashing yellow: Fault and guide to repeat self-test after a self-test failure

Continuous red: alarm

### Technical Data

Range	max. 35 m (IR3), 25 m (UV, UV/IR) alarming within 10 sec. to a 0.1 m <sup>2</sup> n-heptane fire
Cone of vision	90° minimum horizontal and vertical
Operating voltage	10 ... 28 V DC (12 ... 24 V DC nominal)
Start up times	<10 sec
Alarm response time	8 ... 30 sec
Alarm output settings	Selectable LEDs and relays latching/non-latching; factory setting: latching
Automatic & manual Self-Test	Automatic Sensor Test (built in Self-Test) and manual Self-Test
Operating current normal @ 24 V DC	approx. 25 mA
Current in alarm @ 24 VDC	approx. 75 mA
Housing	Glass Reinforced Polyester (GRP), Non-incendive. UV resistant, Self-Extinguishing V-0 (UL-94)
Dimensions	H: 125 mm x W: 80 mm x D: 57 mm
Weight	465 g
Temperature, operating	- 40 °C ... +70 °C
Type of protection	IP65
Detector specification	EN54-10, FM3260
EC-type examination certificate	ATEX Zone2/22, FM Class 1, 2 & 3 Div2

### Accessories

FS1000-SM21 FSL100 Swivel mount.

FSL100-TL FSL100 Test lamp, incl. universal charger and carrying case; non EX

### FSL100-IR3

**NEW**



### IR3 flame detector RED, ATEX FM EN54

FSL three-channel IR flame detector for recognition of quickly developing fires with flame development. The detector achieves a high level of resistance towards disturbance variables via three-channel infrared evaluation. It is suitable for most light industrial applications, storage areas and machinery. It is simple to install with Wide Field of View Solid 90 degree volume cone (Cone of Vision - Field of View), Long Range; 30m @ 10 sec for 0,1 m<sup>2</sup> n-Heptane reference fire and both automatic and manually initiated self-test. IP65 housing is made of Glass Reinforced Polyester (GRP). It is non-incendive, UV resistant, Self-Extinguishing V-0 (UL-94). Has proven exceptional resistance against acids, bases and solvents.

### FSL100-UV

#### UV flame detector RED, ATEX FM EN54

**NEW**



FSL UV flame detector for recognition of quickly developing fires with flame development. The detector achieves a high level of resistance. It is designed for cold storages, fume hoods, heating rooms for chemicals, isolators and radio amplifier rooms. Detector is simple to install with wide field of view, solid 90 degree volume cone, Long Range; 25m @ 10 sec for 0,1 m<sup>2</sup> n-Heptane reference fire and both automatic and manually initiated self-test. IP65 housing is made of Glass Reinforced Polyester (GRP), it is non-incendive, UV resistant, Self-Extinguishing V-0 (UL-94). GRP housing of FSL has proven exceptional resistance against acids, bases and solvents.

### FSL100-UVIR

#### flame detector RED, ATEX FM EN54

**NEW**



FSL-UV/IR flame detector for recognition of quickly developing fires with flame development. The detector achieves a high level of resistance. It is designed to be used in chemical storages, electric power transformers, fuel and plug-in hybrid stations, hydrogen storages and laboratories. Detector is simple to install with wide field of view, solid 90 degree volume cone, Long Range; 25m @ 10 sec for 0,1 m<sup>2</sup> n-Heptane reference fire and both automatic and manually initiated self-test. IP65 housing is made of Glass Reinforced Polyester (GRP), it is non-incendive, UV resistant, Self-Extinguishing V-0 (UL-94). GRP housing of FSL has proven exceptional resistance against acids, bases and solvents.

## Accessories for Intrinsically Safe Detectors

### DASA6-N

#### Air shield assembly 6MM

**NEW**



FSX Air shield assembly protects the detector window from contaminants/dust.

### SM4

#### Swivel mount

**NEW**



FSX - Universal Swivel Mount allows simple, robust and accurate mounting and sighting of FSX flame detectors. Supplied in Stainless Steel with angle markings to allow setting detector aiming.

### FSX-A001

#### FSX kit with Interface, RS485,USB cables

**NEW**

Interface kit to enable access to detection logs and FirePics for post event analysis.



TL-1055

**Test lamp FS18X/FS20X/FS24X NON-EXP**

**NEW**



FSX Safe Area Test Lamp for in-situ testing of flame detectors.

TL-2055

**Test lamp FS18X/FS20X/FS24X EXP**

**NEW**



FSX Hazardous Area Test Lamp for in-situ testing of flame detectors.

PSU-12

**110/220VAC wallcharger test lamp**

**NEW**

Charger for FSX test lamp

SH-001

**Sun shield SS SS2/SS4/FS24X**

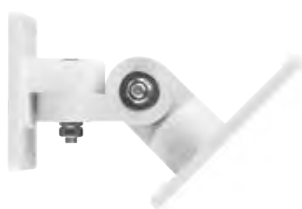
**NEW**

FSX Sunshield protects against direct sun.

FSL100-SM21

**FSL100 swivel mount**

**NEW**



FSL100 Swivel mount enabling simple installation and aiming of the FSL100 range of flame detectors.

FSL100-TL

**FSL100 test lamp, charger & case; non EX**

**NEW**



FSL100 Safe Area Test lamp to enable simple in-situ testing of the FSL100 range of flame detectors.

## Accessories

FSL100-TLBT 12 VDC battery for FSL-TL test lamp

FSL100-TLCH Universal charger for FSL-TL test lamp



## Air Duct Detectors

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.

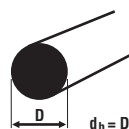
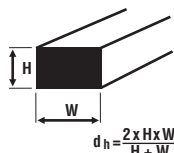
#### Technical Data

Type of protection	IP 54
Housing	ABS plastic
Color	gray
Weight	approx. 800 g
Dimensions	W: 180 mm H: 235 mm D: 183 mm

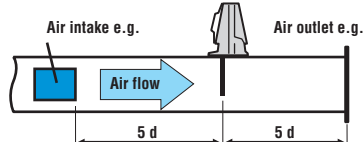
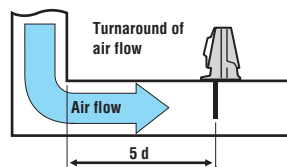


Construction kit includes pipe gasket and cap. The following items are not included: IQ8Quad OTblue LKM or detector base as well as the Venturi tube or filter cartridge.

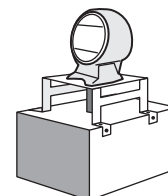
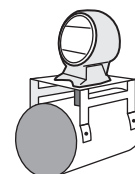
#### Correct diameter calculation $d_h$ :



#### 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 with integrated optical sensor and heat sensor and enhanced false alarm management. For application as air duct smoke detector in venturi air duct modules Part No. 781443. The optical measurement chamber is provided with a patented developed sensor technology using a high-sensitive blue LED (instead of the commonly used red LED in Optical smoke detectors), 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 unique detection technology, unlike ionization detectors, this sensor works without a radioactive element which causes problems at the time of refuse disposal. The detector is capable of identifying the TF1 and TF6 test fires described in the EN 54-9:1982 specification. Well suited for sensitive environment, detection of invisible up to large aerosols.

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
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
Air humidity	< 95 % (non condensing)
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)
Declaration of Performance	DoP-20116130701



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	IP 65
Material	galvanized steel
Weight	approx. 1.8 kg
Dimensions	Ø: 282 mm H: 280 mm



Opened condition

## Honeywell DTS Detector

**NEW**



### Features

- Multicolor LCD display
- LED indicators: Alarm, Measurement, Fault, Operation
- Temperature measurement and monitoring via fiber-optic sensor cable (Part No. 970150.IN or 970153.IN)
- 1, 2 or 4 measurement channels per evaluation unit
- Loop or open line sensor cable topology
- Up to 256 independent alarm zones per channel
- Up to 10 km sensor cable for each channel
- Laser power below 20 mW
- 10 seconds measurement cycles
- Spatial resolution 0.5 m
- Relay interface, optionally Modbus IP/RTU

Approval: VdS, UL, ATEX, LPCB

DTS (Distributed Temperature Sensing) System is capable of detecting fires and accurately locate spots of the fire. The system allows to precisely measure, locate and signalize already small differences of temperature changes by measuring and highlighting temperature of a specific spot vs. environment. Fire resistant (PH category) sensing cable is capable to take signals also during a fire, even when temperatures are up to 750°C (max. two hours). That allows to monitor the progress of fire and supervise fire rescue action accordingly.

The system can work as a standalone system or be easily integrated into existing management platforms (e.g. SCADA systems) by either communicating directly over Ethernet (TCP/IP) using SCPI (standard commands for programmable instruments) or Modbus (IP or RTU).

### Technical Data

Operating voltage	10 ... 30 V DC
Power consumption	approx. 17 W @ 20 °C ambient temperature
Operating temperature	-10 °C ... 60 °C
Storage temperature	-40 °C ... 80 °C
Air humidity	< 95 % (non condensing)
Type of protection	IP30
Weight	approx. 9 kg
Dimensions	W: 448 mm H: 88 mm D: 364 mm 2 HU, 19"

### 970120.IN

### Line heat detector Honeywell DTS - evaluation unit, distance range 1 km

Evaluation unit in a 19" rack mount housing.

### 970121.IN

### Line heat detector Honeywell DTS - evaluation unit, distance range 2 km

As 970120.IN, but with a 2 km detection range.

### 970123.IN

### Line heat detector Honeywell DTS - evaluation unit, distance range 4 km

As 970120.IN, but with a 4 km detection range.

### 970124.IN

### Line heat detector Honeywell DTS - evaluation unit, distance range 6 km

As 970120.IN, but with a 6 km detection range.

### 970125.IN

### Line heat detector Honeywell DTS - evaluation unit, distance range 10 km

As 970120.IN, but with a 10 km detection range.

### 970134.IN

**NEW**



### Wall mount housing IP66 for Honeywell DTS detector

Approval: VdS, UL, ULC

Alternative IP66 wall mount housing with window for 97012X.IN rack housings.

### Technical Data

Operating temperature	-10 °C ... 60 °C
Storage temperature	-40 °C ... 80 °C
Air humidity	< 95 % (non condensing)
Type of protection	IP66
Weight	approx. 17 kg
Dimensions	W: 400 mm H: 500 mm D: 150 mm
Specification	EN54-22 (VdS) / UL 521 and ULC-S530

4 x Pflitsch UNI Dicht cable glands

## Accessories

970129.IN

Modbus TCP/IP interface for Honeywell DTS detector

**NEW**

### Features

- Modbus TCP slave
- Full temperature trace
- Trace index
- Timestamp
- Alarm status
- Zone temperature values (max., min. and avg.)

970130.IN

Optional 2nd sensor channel for Honeywell DTS detector

**NEW**

The DTS evaluation unit is delivered as one channel device as a standard. By ordering 970130.IN the evaluation unit can be expanded by one additional channel. Two channel option enables to make a redundant loop.

970132.IN

Option for 4 sensor channel for Honeywell DTS detector

**NEW**

The DTS evaluation unit is delivered as one channel device as a standard. By ordering 970132.IN the evaluation unit can be expanded by three additional channel. Four channel option enables to make a full redundant loop.

970133.IN

Extension ATEX approval for Honeywell DTS detector

**NEW**

970166

DTS evaluation unit warranty extension, 3 years

**NEW**

Extended warranty extends the standard warranty period to 3 years. Warranty is applicable to one evaluation unit purchased together with the warranty. One warranty always covers one evaluation unit.

970167

DTS evaluation unit warranty extension, 5 years

**NEW**

As 970166 but with a 5 year period.

970135

DTS interface box



### Features

- Modbus: RTU or IP
- Entire temperature trace data
- Independent alarm parameter per zone
- Several status conditions such as fiber break
- LAN: Ethernet 10/100 Mbps, RJ 45
- Serial Interface: RS-232/422/485, DB9 male

The DTS system can easily be integrated into SCADA systems, direct process control or external connections to fire control panels. The DTS interface box provides access via the Modbus protocol RS 232, RS 422 and RS 485, as well as TCP/IP. Through a virtual host concept the data is available for each sensor (channel) as a Modbus unit. Meaning only one unit is required even for multiple channel operation. 10000 register holdings and 3000 register coil definitions can be assigned flexibly to each Modbus unit.

### Technical Data

Operating voltage	12 ... 48 V DC
Ambient temperature	-10 °C ... 60 °C
Storage temperature	-20 °C ... 80 °C
Air humidity	5% to 95% (non condensing)
Weight	approx. 200 g
Dimensions	W: 111 mm H: 77 mm D: 26 mm

970138

## Relay controller set for Honeywell DTS detector



If the application requires driving more than the embedded 20 relay outputs of Honeywell DTS detector, the relay controller set should be used. The set is capable of controlling up to 256 additional relay outputs per channel. Each relay output can be assigned flexibly to any defined alarm condition.

### Technical Data

Operating voltage	24 V DC
Current consumption @ 24 V DC	approx. 350 mA (Controller)
Ambient temperature	0 °C ... 55 °C
Storage temperature	-25 °C ... 85 °C
Air humidity	5% to 95% (non condensing)
Weight	approx. 200 g
Dimensions	W: 55 mm H: 100 mm D: 70 mm (Controller)



- 1 x power supply
- 1 x pre-programmed relay controller
- 1 x digital output module
- 1 x end module
- 8 x relays with accessories for easy wiring

970137

**NEW**

## Relays extension set for Honeywell DTS detector



The Relays Extension Set adds another digital output module and 8 relays. For example, to offer 48 relays, 1 relay controller (Part No. 970138) and 5 Relays Extension Sets are necessary.

### Technical Data

Operating voltage	24 V DC
Current consumption @ 24 V DC	approx. 25 mA (each IO card/relay)
Ambient temperature	0 °C ... 55 °C
Storage temperature	-25 °C ... 85 °C
Air humidity	5% to 95% (non condensing)



- 1 x Digital output module
- 8 x Relays output with accessories for easy wiring



970139

## High dense I/O interface set for Honeywell DTS detector

Cable connection set to connect evaluation unit relay outputs with fire alarm system.



- 1 x input cable, D-Sub 9, 230 cm
- 1 x 9 pin connection box
- 2 x output cable, D-sub 44, 230 cm
- 2 x HD connection box



## Sensor Cables for Honeywell DTS Detector

970150.IN

**NEW**

### FO sensor cable Safety FRNC

Fast responding sensor cable with tight buffered fiber. Compact dimensions, high flexibility and good bending behaviour. High tensile strength by Aramid yarns. The cable has a halogen-free and flame-retardant cable sheath.

#### Technical Data

Explosion protection  
Material

ATEX 1 GD, 111/112

FRNC outer sheath, Aramid fibers, tight-buffered fibers

Weight

approx. 17 kg /km



Sensor cable will be delivered in requested length.

970153.IN

**NEW**

### FO sensor cable Steel FRNC

Fast responding sensor cable armoured, with stainless steel loose tubes and outer sheath. High permissible tensile strength, high crush resistance. Longitudinally and laterally watertight. Excellent rodent protection. The cable has a halogen-free and flame retardant cable sheath.

#### Technical Data

Explosion protection  
Material

ATEX 1 GD, 111/112

FRNC outer sheath, stainless steel wires, gel-free stainless steel loose tube, fibres with primary coating

Weight

approx. 25 kg /km



Sensor cable will be delivered in requested length.

970151

### Sensor cable connectors for FO sensor cable 970150.IN

To reduce deployment cost and time, we are optionally offering preassembled pig tails. This enables quick and easy onsite installation, with no need to organize a fusion splicer, splice box to get the sensing cable connected to the DTS detector. Pig tails are supplied with E2000 8° angled connectors. For safe transportation and installation the connectors and pig tails are covered by a flexible tube to ensure proper protection.



2x Connectors

970154

### Sensor cable connectors for FO sensor cable 970153.IN

As 970151, but for FO sensor cable steel FRNC (Part No. 970153.IN).

970151.IN

**NEW**

#### Features

- 4 LEDs: e.g. Power supply ON, fault signal
- Integrated timer (1 to 10 min)
- User friendly operation
- Work with all fiber-optic cables

### Sensor cable testing tool

The testing tool is used to verify functionality of the sensor cable according to regional requirements.

Electronic boards control the heating sleeves to simulate a fire condition along the fiber-optic sensor cable. Protection devices are built-in for safe operation. Electrical connections are carried out by flexible cables, which are protected against mechanical damages by a resistant outer jacket. The flexible cables have specific plugs for easy connection to the control circuit.

It is possible to use this tool without disassembling the installed mounting brackets (when the distance is at least 1m).

#### Technical Data

Power supply

230 V AC, 50 Hz

Current consumption @ 24 V DC

max. 1.5 mA

Power consumption

max. 350 W

Weight

approx. 1 kg (control unit)

approx. 2 x 1 kg (heating sleeves)

Dimensions

W: 350 mm H: 170 mm D: 440 mm (carrying case)

W: 160 mm H: 80 mm D: 240 mm (control unit)



970154.IN

**NEW**



**E2000 APC 8° pigtail, 5 m**

E2000 8° angled connectors with a 5 m pigtail offered to splice the sensing cables.

970161



**E2000 APC adapter to connect two connectors 970154.IN**

Used to connect two E2000 APC (Part No. 970154.IN) connectors.

970165.IN

**NEW**



**Cutting tool for FO steel sensor cable 970153.IN**

Recommended to cut the stainless steel tube, to properly remove the cable sheath and splicing the pigtail to the sensing fiber.

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## Anchors for Honeywell DTS Detector

970140.IN

**NEW**



### Features

- For indoor and outdoor applications
- Applicable for dynamic loads
- UV-stabilized: 5 times better than PA6/PA66
- Very low moisture absorption
- High chemical resistance
- Halogen free as per IEC-Norm 754-2

### Steel anchor with plastic clamp for Honeywell DTS cables

Self-locking plastic cable clamps with zinc-plated steel anchor, ideal for installation on concrete walls and ceilings. With this mounting solution the sensor cable is fast and securely installed. This plastic cable clamp provides excellent resistance against corrosive and chemical atmospheres as well as an uncritical characteristic relating to fire (halogen free). The plastic cable clamp in combination with the metal free cable is especially suitable for use in rail tunnels where metal free components are often required.

To fix the clamps on the concrete a special concrete dowel type is used. The metal dowel is an anchor made of steel, which is placed into a drilled hole and anchored by deformation-controlled expansion. The anchor may be deployed in structures subject to dry internal conditions and also in structures subject to external atmospheric exposure in humid internal conditions or in other particular aggressive conditions e.g. immersion in seawater, chloride atmosphere or atmosphere with chemical pollution (e.g. in desulphurization plants or road tunnels where de-icing materials are used).

### Technical Data

Ambient temperature	-40 °C ... 110 °C
Type	K6 x 30/15
Material	polyamide (clamp), zinc plated steel (anchor)
Color	dark grey, similar to RAL 7001(clamp)
Dimensions	Ø: 6 mm L: 61 mm (metal anchor)



Please note: for mounting of the anchor, one anchor setting tool (Part No. 970144.IN) is necessary and is not included in delivery.  
Other anchor lengths on request.



100 x plastic clamps  
100 x anchor  
1 x SDS drill

970142.IN

**NEW**



### Stainless steel anchor with plastic clamp for Honeywell DTS cable

As 970140.IN but with stainless steel anchor.

### Technical Data

Type	K6 x 30/15
Material	stainless steel (anchor)
Dimensions	Ø: 6 mm L: 61 mm (metal anchor)



100 x plastic clamps  
100 x anchors  
1 x SDS drill

970143.IN

**NEW**



### Steel anchor with steel clamp for Honeywell DTS cables

As 970140.IN but with steel clamp, protected by rubber. The steel clamp complies with DIN 3016.

### Technical Data

Material	steel zinc plated with rubber protection (clamp)
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100 x steel clamps  
100 x anchors  
1 x SDS drill

970144.IN

**NEW**

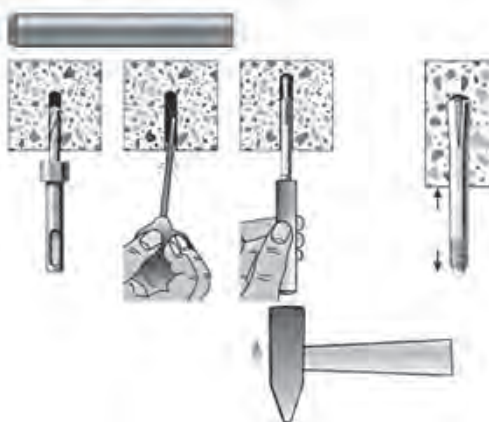


## Anchor setting tool

To fix the metal anchor it is necessary to have one setting tool.



1 x setting tool



970146.IN

**NEW**



## Micro splice-box IP20 for Honeywell DTS sensor cables

The splice box should only be used indoors and is suitable for cables with a diameter of max. 7.5 mm.

### Technical Data

Type of protection	IP20
Material	thermoplastic PC-ABS, non-halogen, flame retardant
Dimensions	W: 100 mm H: 160 mm D: 30 mm



1 x splice cassette with splice holder

### Features

- 2 cable inlets with sealing grommets

970147.IN

**NEW**



## Splice-box IP67 for Honeywell DTS sensor cables

For indoor or outdoor use.

### Technical Data

Type of protection	IP67
Material	Aluminum, coated gray
Dimensions	W: 82 mm H: 128 mm D: 57 mm



1 x splice cassette with splice holder

### Features

- 3 cable inlets with PG cable glands

970148

## Double head cable ties, 500 pcs



## Fireray

761315

### Fireray 50 RV with one prism



#### Features

- Compact housing
- Range 5 m to 50 m
- Robust construction
- Complies with EN 54-12 standard
- Monitoring and resetting is carried out via the esserbus transponder 808623 during loop operation

#### Approval: VdS

The detector consists of an integrated 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.

Integration on the loop and the resetting function is carried out via the esserbus transponder 808623.

Integration on conventional line requires use of a reset module. The detector requires a separate voltage supply of 24 V DC.

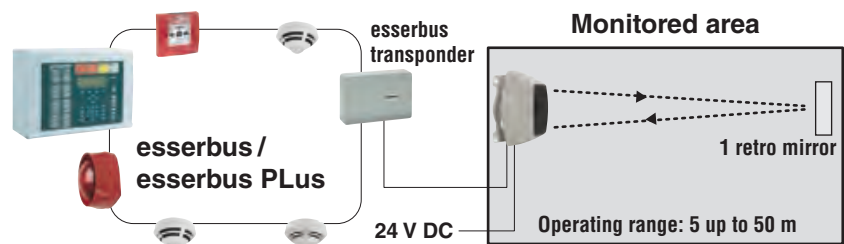
The Fireray is installed approx. 0.3 to 0.8 m underneath the ceiling and its reflector with the same ceiling distance opposite. There should be no reflecting obstacles in the transmission zone (approx. 2 degrees).

#### 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	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
CE certificate	0786-CPD-20045
Dimensions	W: 210 mm H: 117 mm D: 120 mm



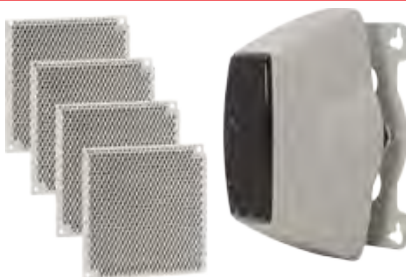
1 prism 761322



Application example

761316

### Fireray 100 RV with four prisms



As 761315, but with four prisms and max. operating range of 100 m.



4 prisms 761323

## 761317

## Fireray 5000, line smoke detector, incl. controller, 100 m



### Features

- Remote system controller
- LASER assisted alignment
- Automatic contamination compensation
- Automatic IR beam path alignment
- Electric remote detector head orientation adjustment

Approval: VdS, LPCB, UL

The Fireray 5000 combines an infrared transmitter and receiver in one detector head. The transmission signal is reflected by a prism and analyzed on smoke concentration by the receiving unit. The transmitting/receiving unit contains an electric actuator which always keeps the IR-ray in the optimal orientation.

Electric actuator in detector head allows for remote manual alignment via remote controller and its LCD display, keypad and laser indicator. The automatic, self-alignment mechanism keeps detector head perfectly aligned with reflective prism regardless of vibrations or building construction movement.

### Technical Data

Operating voltage	14 ... 28 V DC
Quiescent current @ 24 V DC	approx. 10 mA
Current consumption	8 mA ... 12 mA (niedrigen Strom-Modus typ 10)
Alarm current @ 24 V DC	approx. 50 mA
Contact load	100 mA / 30 V DC
Range	8 ... 100 m
Ambient temperature	-20 °C ... 55 °C
Storage temperature	-40 °C ... 85 °C
Type of protection	IP54



4 prisms 761322+761323

## 761317.50

## Fireray 5000, line smoke detector, incl. controller, 50 m



As 761317, but with a 50 m detection range.

### Technical Data

Range	8... 50 m
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1 prism 761322

## 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

**NEW**




#### Reflector set for LRMX, for ranges of up to 80 m

Metal reflector set for different types of linear smoke detectors. Suitable for ranges of up to 80 m.

##### Technical Data

Range	5 ... 80 m
Dimensions	W: 370 mm H: 370 mm D: 7 mm

 Suitable for all lines of supplied beam detectors.

 Steel plate: 4 x reflector 761403

### 761402.10

**NEW**





#### 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

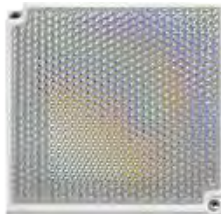
Range	5 ... 100 m
Dimensions	W: 370 mm H: 370 mm D: 7 mm

 Reflector sets also available on request with water-repellent reflectors Part No. 761413 (nano coating) or additional built-in heating. Suitable for all lines of supplied beam detectors.

 Steel plate: 9 x reflector 761403

### 761403

**NEW**



#### 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

 Suitable for all lines of supplied beam detectors.

### 761317.H



#### Fireray 5000 detector head

Additional detector head for Fireray 5000 (761317).

761317.50.H

## Fireray 5000 detector head

Additional detector head for Fireray 5000 (761317.50).



761312

## Ceiling pendant mount for Fireray

Ceiling pendant mount for F2000, F5000, F50RV, F100RV and universal bracket 761314



### Technical Data

Weight approx. 3.4 kg

761314

## Univ. bracket for F5000 or prism plate 761440/761441

Universal bracket for a F5000 detector head or prism plate 761440 or 761441



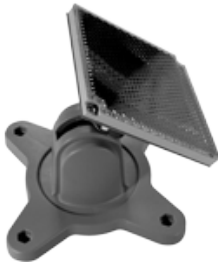
### Technical Data

Weight approx. 300 g

761440

## Plate for 1 prism

Prism plate for 1 prism for use with bracket 761314



### Technical Data

Weight approx. 150 g

 Prism and bracket are not included!

761441

## Plate for 4 prism

Prism plate for 4 prisms for use with bracket 761314



### Technical Data

Weight approx. 300 g

 Prisms and bracket are not included!



## 761404.10

**NEW**



### 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

**NEW**



### 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

## 761406

**NEW**



### 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

**NEW**



### 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.

## Open-area Smoke Imaging Detection (OSID)



### Features

- Patented dual wavelength, UV & IR, particle detection
- High immunity to dust, fogging, steam, reflections and object intrusion
- High tolerance to vibration and structural movement
- Easy alignment with large adjustment and viewing angles
- Simple installation, commissioning and maintenance
- Simple DIP switch configuration
- 3D volumetric coverage
- Maximum detection range up to 150 meters
- 3 levels of sensitivity possible (35%, 45%, 60%)

The linear smoke detector OSID using dual wavelength detects only repeatable absolute smoke obscuration values, while rejecting the presence of dust particles or solid intruding objects. This is already provided using the simplest configuration – one imager and one emitter. One imager can work with up to seven emitters.

An optical imaging array in the OSID detector provides a wider viewing angle to locate and capture images. Consequently, the system is easier to install and align and can compensate for drift caused by natural shifts in building structures.

In addition, OSID requires only limited space (15 - 20 cm) in its line of view. Therefore, the solution can be deployed safely between ceilings and supporting structures, moving cranes, etc.

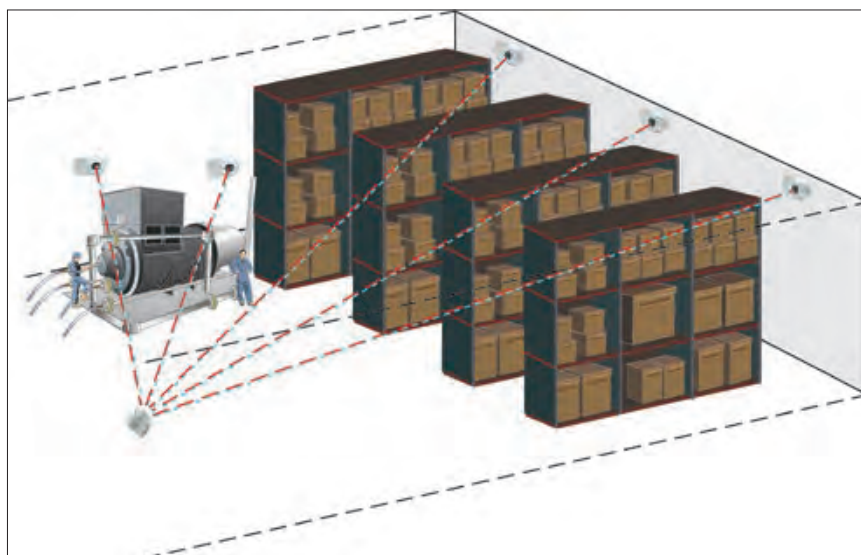
Each component can be mounted directly to the surface or can be secured with the supplied mounting brackets.

Imager	Field of View		Detection Range				Max. Number of Emitters
	Horizontal	Vertical	Standard Power		High Power		
			Min	Max	Min	Max	
10°	7°	4°	30 m (98 ft)	150 m (492 ft)	- -	- -	1
45°	38°	19°	15 m (49 ft)	60 m (197 ft)	30 m (98 ft)	120 m (393 ft)	7
90°	80°	48°	6 m (20 ft)	**34 m (111 ft)	12 m (39 ft)	**68 m (223 ft)	7

\*\* Maximum Distances measured for the Center Field of View of the Imager. For more details on distances for the Imager, see the OSID Product Guide.

### Technical Data

Operating voltage	20 ... 30 V DC
Range	< 150 m
Alignment angle	-60° ... 60° (h), -15° ... 15° (v)
Ambient temperature	-10 °C ... 55 °C
Air humidity	10 ... 95 % (non-condensing)
Type of protection	IP44 (electronic) IP66 (optical housing)
Weight	approx. 651 g
Detector specification	EN 54-12
Dimensions	W: 198 mm H: 130 mm D: 96 mm



## 761300

### OSID Imager - 7° coverage

#### Features

- Field of view coverage: horizontal 7°, vertical 4°

Approval: G211072

Imager for use with OSID emitter (Part No.: 761303 – 761305).  
Image sensor / receiver for smoke detection for open spaces, evaluation. Two light sources (IR and UV), optical filters, high-speed image capture and intelligent software algorithms to increase the noise immunity and safety from erroneous / false alarms, 1 light source can be connected, via sensors and DIP switch individually configurable.

#### Technical Data

Current consumption @ 24 V DC	approx. 4 mA @ 1 imager, 7 mA @ 7 imagers
Weight	approx. 651 g

#### Accessories

761310 OSID Installation Kit  
761303 Emitter - Standard Power, battery version  
761304 Emitter - Standard Power, wired at 24 V DC  
761305 Emitter - High Power, wired at 24 V DC

## 761302

### OSID Imager - 80° coverage

As 761300, but with field of view coverage: horizontal 80°, vertical 48°.

## 761303

### OSID Emitter standard power, battery version

#### Features

- Built-in 5 year battery

The emitter produces two light sources (UV / IR) which are evaluated by an OSID imager. The built-in battery lasts 5 years.

#### Technical Data

Weight	approx. 563 g
Dimensions	W: 130 mm H: 198 mm D: 96 mm

#### Accessories

761310 OSID Installation Kit  
761300 Imager - 7° Coverage, 24 V DC  
761302 Imager - 80° Coverage, 24 V DC

## 761304

### OSID Emitter standard power

As 761303, but wired.

#### Technical Data

Current consumption @ 24 V DC	approx. 0,35 mA
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## 761305

### OSID Emitter, high power

As 761304, but with high powered emitter.

#### Technical Data

Current consumption @ 24 V DC	approx. 0,8 mA
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761310

OSID installation kit

The installation kit is used for commisioning and maintenance of the OSID smoke detector.



- 1 x Laser alignment tool
- 1 x Test filter
- 1 x PC cable
- 1 x Cleaning cloth
- 1 x Manual

761330

IP66 housing for OSID standard light source (emitter)

NEW



Technical Data

Ambient temperature	-25 °C ... 60 °C
Type of protection	IP66 , IK 07
Material	ABS
Dimensions	W: 241 mm H: 194 mm D: 127 mm

761331

IP66 housing for OSID image sensor (imager)

NEW



Technical Data

Ambient temperature	-25 °C ... 60 °C
Type of protection	IP66 , IK 07
Material	ABS
Dimensions	W: 241 mm H: 194 mm D: 127 mm

## Aspirating Smoke Detector - FAAST

8100E

**NEW**

ASD FAAST XM

Approval: G 212002

The FAAST (Fire Alarm Aspiration Sensing Technology®) system is a aspirating smoke detector that draw air into a patented, high-sensitivity smoke-sensing chamber through a pipe network, it delivers highly accurate and discrete early warning fire detection. FAAST's dual vision sensing technology uses a blue LED to detect a wide variety of fires with extremely low concentrations of smoke and an infrared laser to identify nuisances (like dust) which can cause false alarms. Advanced algorithms interpret signals from both sources to meet one single focus. It includes 5 alarm levels, 10 pre-alarm particulate levels and a 10-level airflow pendulum which verifies that air is flowing effectively through the pipe network. The patented particle separator and field-replaceable filter remove contaminants from the pipe-system.

### Features

- Wide detection range between 0.00095 % and 20.5 % obs/m
- Five alarm levels (Alert, Action 1 & 2, Fire 1 & 2)
- Maximum Single Pipe Length 120 m
- Maximum Branched Pipe Length 320 m
- Maximum Air Inlet Holes 36 holes
- Automatically adjusts to current environmental conditions to reduce nuisance alarms, Acclimate mode
- Detector combines dual source chamber with a reliable and quick-responding blue LED technology and infra-red laser
- Advanced detection algorithms reject common nuisance conditions
- Ultrasonic and electronic sensing for pipe and chamber air flow measurement
- Patented particle separator and field-replaceable filter
- Integral Ethernet interface enables remote monitoring and e-mail status updates (up to 6 E-Mail addresses)
- Particulate graph displays subtle environmental changes
- Fault indicators provide a broad spectrum of events
- Unique air flow pendulum graph verifies pipe network functionality
- Event Log stores 18.000 events
- PipeIQ SW for programming pipe layout, system configuration and ongoing system monitoring
- 8 potential free relays output for connection at FACP
- Loop connection via esserbus-alarm transponder Part. No. 808623

### Technical Data

Operating voltage	18 ... 30 V DC
Quiescent current @ 24 V DC	approx. 415 mA
Alarm current @ 24 V DC	approx. 465 mA
Area to be monitored	max. 2000 m²
Ambient temperature	-10 °C ... 55 °C
Sampled Air Temperature	-20 °C ... 60 °C
Air humidity	10 ... 95 % (non-condensing)
Type of protection	IP 30
Housing	Plastic (ABS)
Color	black
Weight	approx. 3.74 kg
Specification	EN 54-20
Dimensions	W: 330 mm H: 337 mm D: 127 mm
Declaration of Performance	DOP 0786-CPD-21130



Please order separately the corresponding language package, see category accessory!

### Accessories

F-A-LC-E	Language package Estonian, Latvian, Lithuanian, Russian
F-A-LC-G	Language package Polish, Czech, Slovak, Hungarian
F-A-LC-H	Language package Slovenian, Croatian, Romanian, Hungarian
F-A3384-000	FAAST Replacement Air Filter

## F-A-LC-A

**NEW**

### Language package German, French, Italian, Dutch

The language package for Aspirating FAAST XM includes the front foils in the languages German, French, Italian and Dutch.



4 x front foils

## F-A-LC-E

**NEW**

### Language package Estonian, Latvian, Lithuanian, Russian

The language package for Aspirating FAAST XM includes the front foils in the languages Estonian, Latvian, Lithuanian and Russian.



4 x front foils

## F-A-LC-G

**NEW**

### Language package Polish, Czech, Slovakian, Hungarian

The language package for Aspirating FAAST XM includes the front foils in the languages Polish, Czech, Slovakian and Hungarian.



4 x front foils

## F-A-LC-H

**NEW**

### Language package Slovenian, Croatian, Romanian, Hungarian

The language package for Aspirating FAAST XM includes the front foils in the languages Slovenian, Croatian, Romanian, Hungarian.



4 x front foils

## F-A3384-000

**NEW**



### Replacement air filter for FAAST XM

Replacement air filter for aspirating smoke detector FAAST XM.



1 x Air filter

801711

**NEW**



## Features

- 2 independant detection chambers w. individual laser smoke detector, fan, filter, sensor and monitor
- 1 channel system for connection of max. 2 pips per channel
- Bild-in and preconfigured esserbus transponder
- High sensitivity laser optics
- 9 sensitivity levels from 0.07 % to 6.5 % obs/m
- Fault indicators provide a broad spectrum of events
- PipelQ SW for programming pipe layout, system configuration and ongoing system monitoring
- Simple LED overview with detailed fault status display
- Unique air flow pendulum graph verifies pipe network functionality
- 10 adjustable fan levels
- Advanced detection algorithms reject common nuisance conditions
- Automatically adjusts to current environmental conditions to reduce nuisance alarms, Acclimate mode
- Event Log stores up to 2.244 events
- Ultrasonic and electronic sensing for pipe and chamber air flow measurement
- USB interface
- Easily replaceable and reusable filter

## ASD FAAST LT EB, single channel

Approval: pending

The FAAST (Fire Alarm Aspiration Sensing Technology®) system is a aspirating smoke detector that draw air into a patented, high-sensitivity smoke-sensing chamber through a pipe network, it delivers highly accurate and discrete early warning fire detection. FAAST LT EB includes high sensitivity laser fire detection, ultrasonic flow sensors, and internal design features to protect vulnerable components from environmental and human threats. The device is fast to install and easy to commission thanks to PipelQ LT pipe design and configuration software which is included as standard.

The FAAST LT esserbus will be connected direct on the esserbus. All devices are member from the esserbus loop and will be easy programmed with Commissioning Software tools8000. A range of customisable settings are geared towards maximising device performance and meeting different application needs. To accommodate local installation standards or environments, flow and general fault delays can also be set.

## Technical Data

Operating voltage	18.5 ... 31.5 V DC
Quiescent current @ 24 V DC	approx. 182 mA
Alarm current @ 24 V DC	approx. 480 mA
Operation sound level @ 24 V DC	26 dB (A) (fan level 1)
Area to be monitored	max. 1600 m²
Max. single pipe length	100 m
Max. total branched pipe length	160 m
Max. air inlet holes	18
Ambient temperature	-10 °C ... 55 °C
Aspirated air temperature	-20 °C ... 60 °C
Air humidity	10 ... 95 % (non-condensing)
Type of protection	IP65
Housing	Plastic (ABS)
Color	black/gray
Weight	approx. 4 kg
Specification	EN 54-20, Class A,B, C
Dimensions	W: 356 mm H: 403 mm D: 135 mm
Declaration of Performance	DOP-ASP004

 24 language foils are included

## Accessories

FL-IF-6 FAAST LT replacement integral filter

801722

**NEW**

## Features

- 2 independant detection chambers w. individual laser smoke detector, fan, filter, sensor and monitor
- 2 channel system for connection of max. 2 pips per channel

## ASD FAAST LT EB, dual channel

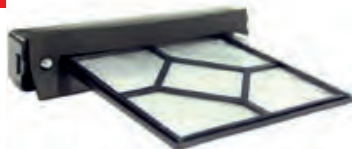
As 801722, but with 2 independant channels and one laser smoke detector per channel.

## Technical Data

Quiescent current @ 24 V DC	approx. 282 mA
Alarm current @ 24 V DC	approx. 690 mA
Operation sound level @ 24 V DC	28 dB (A) (fan level 1)
Declaration of Performance	DOP-ASP005

FL-IF-6

**NEW**



## Replacement integral filter for FAAST LT EB

Replacement integral filter for aspirating smoke detector FAAST LT EB.

 6 x Integral filter



801544.10

## Air filter for aspirating smoke detectors



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



Suitable for FAAST products



Filter cartridges (1 x 60 ppi, 1 x 45 ppi, 1 x 25 ppi)

801604

## Replacement air filter pads for 801544.10



Replacement cartridge for air filters (801544.10), consisting of one fine, medium and coarse filter pad each.



Suitable for FAAST products



Filter cartridges (1 x 60 ppi, 1 x 45 ppi, 1 x 25 ppi)



1 Set

## VLP-400

**NEW**



### Features

- Wide sensitivity range
- Laser based smoke detection
- 4 configurable alarm levels
- High efficiency aspirator
- Four inlet pipes
- Airflow supervisor per sampling pipe
- Clean air barrier optics protection
- Easy to replace air filter
- 7 programmable relays
- AutoLearn™
- Event log – up to 18000 events

## VESDA VLP

Approval: G 298024

The VESDA VLP detector has an alarm sensitivity range of 0.005%–20% obscuration/m (0.0015%–6.25% obscuration/ft). The VLP is classed as a “Very Early Warning Smoke Detector”, which means that it detects fire at the earliest possible stage and reliably measures very low to extremely high concentrations of smoke.

The detection chamber uses a stable Class 1 laser light source and carefully positioned sensors to achieve the optimum response to a vast range of smoke types. The status of the detector, and all alarm, service and fault events, are transmitted to displays and external systems via VESDAnet.

### Technical Data

Operating voltage	18 ... 30 V DC
Quiescent current @ 24 V DC	max. 340 mA
Alarm current @ 24 V DC	max. 390 mA
Area to be monitored	max. 2000 m²
Contact load relay	2 A @ 30 V DC NO/NC contacts
Alarm sensitivity	0.005%–20% obs/m (0.0015%–6.25% obs/ft)
Cable termination	0.2–2.5 sq mm
Max. single pipe length	100 m
Max. total branched pipe length	200 m
Ambient temperature	0 °C ... 38 °C
Aspirated air temperature	-20 °C ... 60 °C
Air humidity	10 ... 95 % (non-condensing)
Type of protection	IP30
Weight	approx. 4 kg
Specification	EN 54-20, Class A, B, C
Dimensions	W: 350 mm H: 225 mm D: 125 mm



Filter included in detector

### Accessories

VSP-005 VESDA Filter for VLP, VLS, VLF, VLC

## VLS-600

**NEW**



### Features

- 4 configurable alarm levels
- Four inlet pipes
- 7 or 12 programmable relay options

## VESDA VLS

As VLP-400 (VESDA VLP), but also includes a valve mechanism in the inlet manifold and software to control the airflow from the four sectors (pipes). This configuration enables a single VESDA zone to be divided into four separate sectors, for example, distinguishing between separate voids within a room.

### Technical Data

Quiescent current @ 24 V DC	max. 280 mA
Alarm current @ 24 V DC	max. 300 mA
Alarm sensitivity	0.005%–20% obs/m (0.0015%–6% obs/ft)

## VLC-500RO

**NEW**



### Features

- Absolute smoke detection
- Wide sensitivity range
- Single pipe inlet
- Five status LEDs
- Clean air barrier optics protection
- Three alarm levels
- Three programmable relays
- Air flow monitoring
- Simple mounting design
- AutoLearn™
- Event log – up to 12000 events

## VESDA VLC

Approval: G 298024

The VESDA VLC detector has been specifically designed to provide all the benefits of aspirating smoke detection, including very early warning, in single environment small areas and where space is a premium.

The VLC combines the well-proven VESDA VLP detection technology with a modified aspirator design, and incorporates them into a compact enclosure with a simplified display.

The detector interfaces via relays only.

### Technical Data

Operating voltage	18 ... 30 V DC
Quiescent current @ 24 V DC	approx. 225 mA
Alarm current @ 24 V DC	approx. 245 mA
Area to be monitored	max. 800 m²
Contact load relay	2 A @ 30 V DC NO/NC contacts
Alarm sensitivity	0.005%–20% obs/m (0.0015%–6.25% obs/ft)
Cable termination	0.2–2.5 sq mm
Max. single pipe length	80 m
Ambient temperature	0 °C ... 38 °C
Aspirated air temperature	-20 °C ... 60 °C
Air humidity	10 ... 95 % (non-condensing)
Type of protection	IP30
Weight	approx. 1,9 kg
Specification	EN 54-20, Class A, B, C
Dimensions	W: 225 mm H: 225 mm D: 85 mm



Filter included in detector

### Accessories

VSP-005 VESDA Filter for VLP, VLS, VLF, VLC

## VLF-250

**NEW**



### Features

- Out-of-the-Box installation and commissioning
- Ultrasonic airflow sensing
- Laser-based absolute smoke detection
- Programmable alarm thresholds
- Clean air barrier optics protection
- AutoLearn™ Flow
- AutoLearn™ Smoke
- Event log – up to 18000 events

## VESDA VLF-250

Approval: G 205060

The VESDA VLF-250 detector is a very early warning smoke detector designed to protect small, business-critical environments of up to 250 m².

The VLF can be installed and commissioned out-of-the-box without the need for a special interface or software programming tools. The patent-pending Ultrasonic Flow Sensing used in the VLF provides a direct reading of the sampling pipe flow rate. The system is immune to air temperature and pressure changes and is unaffected by contamination. The VLF is the first air sampling smoke detector to use ultrasonic flow sensing.

### Technical Data

Operating voltage	18 ... 30 V DC
Quiescent current @ 24 V DC	approx. 220 mA
Alarm current @ 24 V DC	approx. 295 mA
Area to be monitored	max. 250 m²
Contact load relay	2 A @ 30 V DC NO/NC contacts
Cable termination	0.2–2.5 sq mm
Max. single pipe length	25 m
Ambient temperature	0 °C ... 38 °C
Aspirated air temperature	-20 °C ... 60 °C
Air humidity	5 ... 95 % (non-condensing)
Type of protection	IP30
Weight	approx. 2 kg
Specification	EN 54-20, Class A, B, C
Dimensions	W: 256 mm H: 183 mm D: 92 mm



Filter included in detector

### Accessories

VSP-005 VESDA Filter for VLP, VLS, VLF, VLC

## VLF-500

**NEW**

## VESDA VLF-500

As VLF-250 but for areas up to 500 m².

### Technical Data

Quiescent current @ 24 V DC	approx. 410 mA
Alarm current @ 24 V DC	approx. 490 mA

### VLI-880

**NEW**



#### Features

- Suitable for Class 1 Division 2 applications - Groups A,B,C & D
- Up to 4 inlet pipes
- Five high intensity status LEDs for greater visibility
- Robust absolute smoke detection
- Intelligent Filter (patent pending)
- Lint Trap to capture fibrous particulates
- Secondary filter
- Clean air barrier for optics protection
- AutoLearn™ Smoke and Flow
- Clean Air Zero™
- Air-path monitoring
- Five relays (Fire, Fault and 3 configurable)
- Ultrasonic flow sensing

### VESDA VLI Relay only

Approval: G 212155

The VESDA VLI is an early warning aspirating smoke detection (ASD) system, designed to protect industrial applications and harsh environments of up to 2000 m<sup>2</sup>.

The VLI detector combines a fail-safe intelligent filter (patent pending) with an advanced clean-air barrier for optics protection allowing the use of absolute detection and a long detection chamber life without the need for re-calibration.

The intelligent filter:

- reduces the level of pollution in the air sample before it enters the detection chamber, which dramatically extends the operational life of the detector in harsh and polluted environments.
- is fully monitored, providing consistent sensitivity over the entire operational life of the detector.

#### Technical Data

Operating voltage	18 ... 30 V DC
Quiescent current @ 24 V DC	approx. 415 mA
Alarm current @ 24 V DC	approx. 440 mA
Area to be monitored	max. 2000 m <sup>2</sup>
Contact load relay	2 A @ 30 V DC NO/NC contacts
Cable termination	0.2–2.5 sq mm
Alarm sensitivity	0.005%–20% obs/m (0.0015%–6.25% obs/ft)
Max. single pipe length	120 m
Max. total branched pipe length	360 m
Ambient temperature	0 °C ... 38 °C
Aspirated air temperature	-20 °C ... 60 °C
Air humidity	10 ... 95 % (non-condensing)
Type of protection	IP66
Weight	approx. 6 kg
Specification	EN 54-20, Class A, B, C
Dimensions	W: 426.5 mm H: 316.5 mm D: 180 mm



Filter included in detector

### VLI-885

**NEW**



### VESDA VLI with VesdaNet

As VLI-880 but with VesdaNet implemented.

## VEU-A00

**NEW**



### Features

- Multi stage filtration and optical protection with clean air barriers
- Four alarm levels and an ultra wide sensitivity range
- Secondary monitoring and maintenance via WiFi
- USB for PC configuration, and firmware upgrade using a memory stick
- Remote monitoring with iVESDA
- Fully backward compatible with VLP and VESDAnet
- AutoLearn™ smoke and flow
- Extensive event log - 20 000 events

## VESDA VEU with LEDs

Approval: G 214010

The VEU series of aspirating smoke detectors are the premium detector of the VESDA-E range. An Ultra-wide sensitivity range; 15 times greater than VESDA VLP, and provision for more sampling holes provide an increased coverage in high airflow applications by at least 40%. Considerably longer linear pipe runs and extended branched pipe network configurations cater perfectly to applications with higher ceilings providing an increased coverage by up to 80% whilst allowing convenient detector mounting for ease of service and maintenance. A range of revolutionary new features provide unsurpassed detection performance, flexibility, field programmability, connectivity and reduced total cost of ownership.

### Flair Detection Technology

Flair is the revolutionary new detection chamber that forms the core of VESDA-E VEU, providing better detection, fewer nuisance alarms, higher stability, increased longevity and particle characterisation. Direct imaging of the sampled particles using a CMOS imager combined with multiple photo-diodes provides vastly more data that can be used to derive actionable information about the observed particles using analytics.

### Technical Data

Operating voltage	18 ... 30 V DC
Quiescent current @ 24 V DC	max. 613 mA
Alarm current @ 24 V DC	max. 646 mA
Area to be monitored	max. 6 500 m <sup>2</sup>
Contact load relay	2 A @ 30 V DC NO/NC contacts
Cable termination	0.2–2.5 sq mm
Alarm sensitivity	0.001%–20% obs/m (0.0003%–6.25% obs/ft)
Max. single pipe length	160 m
Max. total branched pipe length	800 m
Number of holes (A/B/C)	80/80/100
Ambient temperature	0 °C ... 38 °C
Aspirated air temperature	-20 °C ... 60 °C
Air humidity	10 ... 95 % (non-condensing)
Type of protection	IP40
Weight	approx. 4,83 kg
Specification	EN 54-20, Class A, B, C
Dimensions	W: 350 mm H: 225 mm D: 135 mm



Filter included in detector

### Accessories

VSP-962 VESDA Filter for VEU, VEP

## VEU-A10

**NEW**



## VESDA VEU with Display

As VEU-A00 but with a 3,5" display.

### Technical Data

Quiescent current @ 24 V DC	approx. 658 mA
Alarm current @ 24 V DC	approx. 692 mA
Weight	approx. 4,9 kg

## VEP-A00-P

**NEW**



### Features

- Multi stage filtration and optical protection with clean air barriers
- Four alarm levels and an ultra wide sensitivity range
- Secondary monitoring and maintenance via WiFi
- USB for PC configuration, and firmware upgrade using a memory stick
- Remote monitoring with iVESDA
- Fully backward compatible with VLP and VESDAnet
- AutoLearn™ smoke and flow
- Extensive event log - 20 000 events

## VESDA VEP 4 pipe with LEDs

Approval: G 214010

The VESDA-E VEP series of smoke detectors bring the latest and most advanced detection technology to provide very early warning and the best nuisance alarm rejection to a wide range of applications. Built on the Flair detection technology and years of application experience, VEP detectors achieve consistent performance over their lifetime via absolute calibration. In addition, the VEP delivers a range of revolutionary features that provide user value.

### Flair Detection Technology

Flair is the revolutionary new detection chamber that forms the core of VESDA-E VEP, providing better detection, fewer nuisance alarms, higher stability, increased longevity and particle characterisation. Direct imaging of the sampled particles using a CMOS imager combined with multiple photo-diodes allow vastly more data that can be used to derive actionable information about the observed particles using analytics.

### Technical Data

Operating voltage	18 ... 30 V DC
Quiescent current @ 24 V DC	max. 367 mA
Alarm current @ 24 V DC	max. 400 mA
Area to be monitored	max. 2 000 m <sup>2</sup>
Contact load relay	2 A @ 30 V DC NO/NC contacts
Cable termination	0.2–2.5 sq mm
Alarm sensitivity	0.005%–20% obs/m (0.00016%–6.25% obs/ft)
Max. single pipe length	110 m
Max. total branched pipe length	560 m
Number of holes (A/B/C)	40/80/100
Ambient temperature	0 °C ... 38 °C
Aspirated air temperature	-20 °C ... 60 °C
Air humidity	10 ... 95 % (non-condensing)
Type of protection	IP40
Weight	approx. 4 kg
Specification	EN 54-20, Class A, B, C
Dimensions	W: 350 mm H: 225 mm D: 135 mm



Filter included in detector

### Accessories

VSP-962 VESDA Filter for VEU, VEP

## VEP-A10-P

**NEW**



## VESDA VEP 4 pipe with display

As VEP-A00 but with a 3,5" display.

### Technical Data

Quiescent current @ 24 V DC	max. 417 mA
Alarm current @ 24 V DC	max. 483 mA
Weight	approx. 4,1 kg

## VEP-A00-1P

**NEW**

## VESDA VEP 1 pipe with LEDs

As VEP-A00 but with one pipe.

### Technical Data

Max. single pipe length	100 m
Max. total branched pipe length	130 m
Number of holes (A/B/C)	30/40/45

761517

**NEW**



## 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

**NEW**



## VESDA 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.

VSP-962

**NEW**



## VESDA filter for VEU, VEP

Replacement air filter for VESDA VEU and VEP detectors.



1 piece

VSP-005

**NEW**



## VESDA filter for VLP, VLS, VLF, VLC

Replacement air filter for VESDA VLP, VLS, VLF and VLC detectors.



1 piece

761509

**NEW**



## Air filter for VESDA aspirating systems

External filter for VESDA aspirating system for extremely polluted environments.

### Technical Data

Color	gray, similar to RAL 7035
Dimensions	W: 206 mm H: 59 mm D: 33 mm

761514

**NEW**



## Replacement filter for 761509

Replacement filter cartridge for air filter Item No. 761509. 1 set consisting of 4 filter cartridges.



## Accessories

950101

**Pipe (PVC), diameter 25 mm**



Length = 25 m (each 5 m)

**Technical Data**

Ambient temperature -10 °C ... 60 °C



5 pcs

761520.10

**Pipe (ABS), diameter 25 mm**



Length = 30 m (each 3 m)

**Technical Data**

Ambient temperature -40 °C ... 70 °C



10 pcs

950119

**90° bend (PVC) for 25 mm pipe**



**Technical Data**

Ambient temperature -10 °C ... 60 °C



10 pcs

761521.10

**90° bend (ABS) for 25 mm pipe**

As 950119 but ABS material.

**Technical Data**

Ambient temperature -40 °C ... 70 °C

950104

**90° angle (PVC) for 25 mm pipe**



**Technical Data**

Ambient temperature -10 °C ... 60 °C



10 pcs

761522.10

**90° angle (ABS) for 25 mm pipe**

As 950104 but ABS material.

**Technical Data**

Ambient temperature -40 °C ... 70 °C

950107

45° angle (PVC) for 25 mm pipe



## Technical Data

Ambient temperature -10 °C ... 60 °C

 10 Pcs.

761523.10

45° angle (ABS) for 25 mm pipe

As 950107 but ABS material.

## Technical Data

Ambient temperature -40 °C ... 70 °C

950110

T-Piece (PVC) for 25 mm pipe



## Technical Data

Ambient temperature -10 °C ... 60 °C

 10 pcs

761524.10

T-Piece (ABS) for 25 mm pipe

As 950110 but ABS material.

## Technical Data

Ambient temperature -40 °C ... 70 °C

950116

Sleeve (PVC) for 25 mm pipe



## Technical Data

Ambient temperature -10 °C ... 60 °C

 10 Pcs.

761525.10

Sleeve (ABS) for 25 mm pipe

As 950116 but ABS material.

## Technical Data

Ambient temperature -40 °C ... 70 °C

950113

End cap (PVC) for 25 mm pipe



### Technical Data

Ambient temperature -10 °C ... 60 °C



10 pcs

761526.10

End cap (ABS) for 25 mm pipe

As 950113 but ABS material.

### Technical Data

Ambient temperature -40 °C ... 70 °C

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



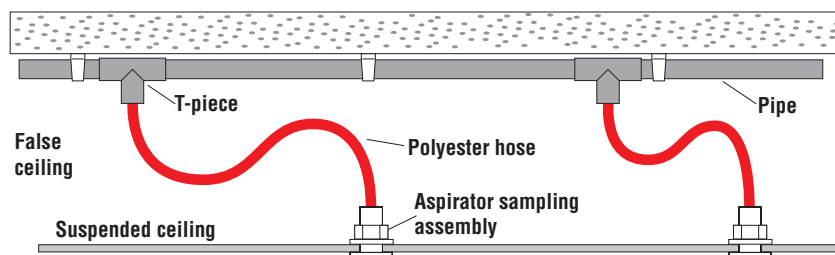
For flexible installation in object surveillance or suspended ceilings.  
All components are pre-mounted, but not glued; to enable cut and adaptation on-site.

### Technical Data

Dimensions L: 3000 mm



1 x T piece (761524), 3 m corrugated polyester hose, (761543), 1 x ceiling lead-through adapter with threaded joint



Application example: monitoring of room

801602

## 3-way ball valve (PVC)



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

801607

## 3-way ball valve (ABS)

As 801602 but ABS material.

801606

## Condensate trap for aspirating smoke detectors



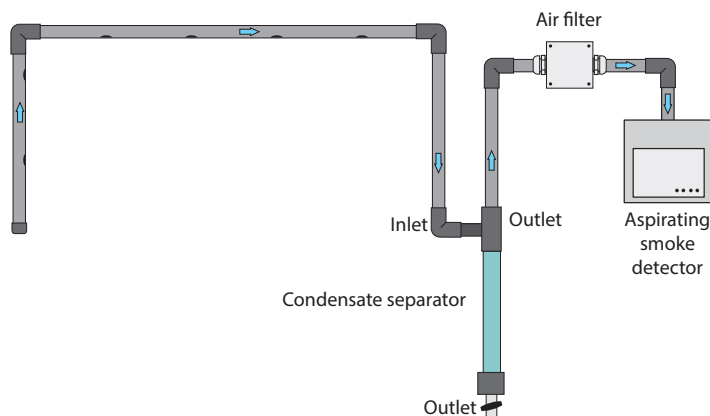
### Features

- Plastic housing with manual outlet valve
- Plug connectors for attaching to a piping system

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



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	ABS
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 Tool for clean, fast pipe cuts. For thin-walled pipes also,  $\varnothing \leq 63 \text{ mm}$   $\varnothing \leq 2''$ .

## Reducing Film Sheets



**i** 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
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801566	Aspiration reducing film sheet, 6.8 mm
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801567	Aspiration reducing film sheet, 7.0 mm
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## Alarm Devices

Conventional ENscape

190-196

Intelligent Addressable IQ8Alarm

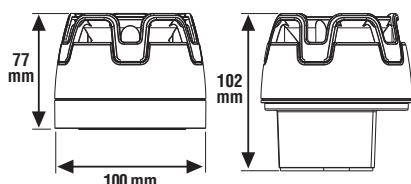
197-206

Intrinsically Safe

207

Remote Indicators

208

**CWSO-RR-S1****NEW****Features**

- EN 54-3 compliant
- Suitable for 12 V and 24 V DC service voltage
- Synchronous sound trigger
- Volume adjustable to 2 levels at the device

**Acoustic alarm signaling device, red**

Approval: G 215015

The acoustic alarm signaling device is EN 54-3 compliant, in red housing, and offers a selection of 32 signal tones including the DIN tone and other country-specific tones. All tones comply with EN 54-3. Configuration takes place via a 6-pin DIP switch. Up to two different signal tones may be activated. Signaling device with flat base, suitable for wall and ceiling mounting.

**Technical Data**

Operating voltage	9 ... 29 V DC
Current consumption @ 12 V DC	approx. 14.9 mA (@ DIN tone)
Current consumption @ 24 V DC	approx. 33.4 mA (@ DIN tone)
Sound level @ 12 V DC	96.2 dB(A) (@ DIN tone)
Sound level @ 24 V DC	102.1 dB(A) (@ DIN tone)
Connection terminal	0.5 ... 2.5 mm <sup>2</sup>
Ambient temperature	-25 °C ... 70 °C
Air humidity	< 96 % (non-condensing)
Type of protection	IP21C, IP65 with CWR and accessories
Material	PC/ABS, UL94-V0
Color	red, similar to RAL 3020
Weight	approx. 190 g
Specification	EN 54-3 acoustic signaling device
Dimensions	Ø: 100 mm H: 77 mm Ø: 100 mm H: 102 mm (incl. IP base)



Not suitable for use outdoors or in damp areas. Please use therefore the optional bases and accessories (Part No. CWR, PS188, PS189). Use of the deep IP socket reduces the dB output by an average of 4 dB. Replacement for Part No. 766225.

**Accessories**

CWR Base deep IP65, red  
 PS188 Base deep, O-Ring  
 PS189 Base deep, seal

**CWSO-WW-S1****NEW****Acoustic alarm signaling device, white**

Approval: G 215015

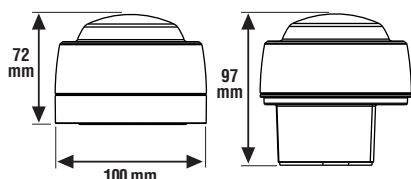
As CWSO-RR-S1, but white color.

**Technical Data**

Color	white, similar to RAL 9003
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**Accessories**

CWW Base deep IP 65, white

**CWST-RR-S5****NEW****Features**

- EN 54-23 compliant
- C & W category
- Synchronous flash trigger
- Up to 6.2 m room width for wall mounting
- Up to 9.4 m room diameter for ceiling mounting

**Optical alarm signaling device EN 54-23 cat. W+C, red flash, red housing**

Optical signaling device compliant with EN 54-23 for wall and ceiling mounting with red lamp color and flat base. The signaling device is suitable for square signal ranges W-2.4-6.2 and cylindrical signal ranges C-3-9.4 / C-6-8.2.

To help define your conventional Visual Alarm Devices (VADs) requirements in line with the EN54-23 standard, we have developed an easy to use online guide. Simply enter the room dimensions and ambient light conditions and the guide will help your device selection:

<http://www.kac.co.uk/EN54-device-chooser.htm>

**Technical Data**

Operating voltage	12 ... 29 V DC
Current consumption @ 24 V DC	approx. 37 mA (@ DIN tone)
Frequency of flash	approx. 0.5 Hz
Flash color	red
Connection terminal	0.5 ... 2.5 mm <sup>2</sup>
Ambient temperature	-25 °C ... 70 °C
Air humidity	< 96 % (non-condensing)
Type of protection	IP21C, IP65 with CWR and accessories
Material	PC/ABS, UL94-V0
	PC, UL94-V0 (Lens)
Category wall	W-2,4-6,2
Mounting height wall	2.4 m
Room width	6.2 m
Category ceiling	C-3-9,4 / C-6-8,2
Mounting height ceiling	3 m / 6 m
Room diameter	9,4 m / 8,2 m
Color	base red, similar to RAL 3020
	cap: transparent
Weight	approx. 164 g
Specification	EN 54-23 optical signaling device
Dimensions	Ø: 100 mm H: 72 mm
	Ø: 100 mm H: 97 mm (incl. IP base)



Not suitable for use outdoors or in damp areas. Please use therefore the optional bases and accessories (Part No. CWR, PS188, PS189). Replacement for Part No. 766420, 766422, 766410.

**Accessories**

CWR Base deep IP65, red  
 PS188 Base deep, O-Ring  
 PS189 Base deep, seal

**CWST-RW-S5****NEW****Optical alarm signaling device, EN 54-23 cat. W+C, white flash, red housing**

As CWST-RR-S5, but with a white flash.

**CWST-WR-S5****NEW****Optical alarm signaling device EN 54-23 cat. W+C, red flash, white housing**

As CWST-RR-S5, but in a white housing.

**Technical Data**

Color	base white, similar to RAL 9003
	cap: transparent

**Accessories**

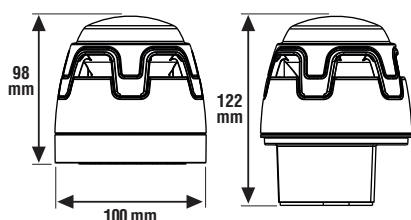
CWW Base deep IP65, white  
 PS188 Base deep, O-Ring  
 PS189 Base deep, seal

**CWST-WW-S5****NEW****Optical alarm signaling device, EN 54-23 cat. W+C, white flash**

As CWST-WR-S5, but with a white flash.

## CWSS-RR-S5

**NEW**



### Features

- EN 54-3 and 54-23 compliant
- Synchronous sound and flash trigger
- Volume adjustable to 2 levels at the device
- C & W category
- Signal range up to 6.0 m room width for wall mounting
- Signal range up to 8.9 m room diameter for ceiling mounting

## Combined acoustic/optical alarm device EN 54-23 cat. W+C, red flash, red housing

Combined acoustic and optical alarm signaling device is EN 54-3 & EN 54-23 compliant, in red housing, and offers a selection of 32 signal tones including the DIN tone and other country-specific tones. All tones comply with EN 54-3. Tone configuration takes place via a 6-pin DIP switch. Up to two different signal tones may be activated. The optical signaling device with red signal lamp is suitable in accordance with EN 54-23 for square signal ranges W-2.4-6.0 and cylindrical signal ranges C-3-8.9 / C-6-8.2. Signaling device with flat base, suitable for wall and ceiling mounting. To help define your conventional Visual Alarm Devices (VADs) requirements in line with the EN54-23 standard, we have developed an easy to use online guide. Simply enter the room dimensions and ambient light conditions and the guide will help your device selection: <http://www.kac.co.uk/EN54-device-chooser.htm>

### Technical Data

Operating voltage	12 ... 29 V DC
Current consumption @ 12 V DC	approx. 63.9 mA (@ DIN tone)
Current consumption @ 24 V DC	approx. 69.9 mA (@ DIN tone)
Sound level @ 12 V DC	97 dB(A) (@ DIN tone)
Sound level @ 24 V DC	102.7 dB(A) (@ DIN tone)
Frequency of flash	approx. 0.5 Hz
Flash color	red
Connection terminal	0.5 ... 2.5 mm <sup>2</sup>
Ambient temperature	-25 °C ... 70 °C
Air humidity	< 96 % (non-condensing)
Type of protection	IP21C, IP65 with CWW and accessories
Material	PC/ABS, UL94-V0
Category wall	W-2,4-6,0
Mounting height wall	2.4 m
Room width	6 m
Category ceiling	C-3-8,9 / C-6-8,2
Mounting height ceiling	3 m / 6 m
Room diameter	8,9 m / 8,2 m
Color	red, similar to RAL 3020
	cap: transparent
Weight	approx. 248 g
Specification	EN 54-3 acoustic signaling device EN 54-23 optical signaling device
Dimensions	Ø: 100 mm H: 98 mm Ø: 100 mm H: 122 mm (incl. IP base)

**i** Not suitable for use outdoors or in damp areas. Please use therefore the optional bases and accessories (Part No. CWR, PS188, PS189). Use of the deep IP socket reduces the dB output by an average of 4 dB. Replacement for Part No. 766430.

### Accessories

CWR Base deep IP 65, red  
PS188 Base deep, O-Ring  
PS189 Base deep, seal

## CWSS-RW-S5

**NEW**

## Combination signaling device EN 54-23 cat. W+C, white flash

As CWSS-RR-S5, but with a white flash.

## CWSS-WR-S5

**NEW**



## Combined acoustic/optical alarm device EN 54-23 cat. W+C, red flash, white housing

As CWSS-RR-S5, but in a white housing.

### Technical Data

Color	white, similar RAL 9003
	cap: transparent

### Accessories

CWW Base deep IP65, white  
PS188 Base deep, O-Ring  
PS189 Base deep, seal

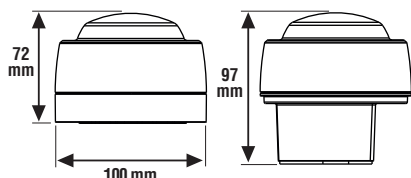
## CWSS-WW-S5

**NEW**

## Combined acoustic/optical alarm device EN 54-23 cat. W+C, white flash, white housing

As CWSS-WR-S5, but in a white housing with white flash.

## CWST-WA-S7

**NEW****Features**

- Flat design
- Synchronous flash trigger
- Low alarm power

**Optical alarm signaling device, amber flash**

Optical alarm device for wall and ceiling mounting with amber signal flash and flat base.  
The device does not comply with EN 54-23.

**Technical Data**

Operating voltage	12 ... 29 V DC
Current consumption @ 24 V DC	approx. 3 mA (@ DIN tone)
Frequency of flash	approx. 0.5 Hz
Flash color	yellow
Ambient temperature	-25 °C ... 70 °C
Air humidity	< 96 % (non-condensing)
Type of protection	IP21C, IP65 with CWW and accessories
Material	PC/ABS, UL94-V0
	PC, UL94-V0 (Lens)
Color	base: white, similar RAL 9003
	cap: amber
Weight	approx. 164 g
Dimensions	Ø: 100 mm H: 72 mm
	Ø: 100 mm H: 97 mm (incl. IP base)



Not suitable for use outdoors or in damp areas. Please use therefore the optional bases and accessories (Part No. CWW, PS188, PS189). Replacement for Part No. 766411.

**Accessories**

CWW Base deep IP 65, white  
 PS188 Base deep, O-Ring  
 PS189 Base deep, seal

## CWST-RA-S7

**NEW****Optical alarm signaling device, amber flash, red housing**

As CWST-WA-S7 but in a red housing.  
 All tones comply with EN 54-3. Tone configuration takes place via a 6-pin DIP switch. The optical signaling device with amber signal lamp is suitable for applications where a sounder is required as the primary method of alarm, but a supplementary light indicator would also be of benefit.

**Technical Data**

Type of protection	IP21C, IP65 with CWR and accessories
Material	PC/ABS, UL94-V0
	PC, UL94-V0 (Lens)
Color	base: red, similar RAL 3020
	cap: amber



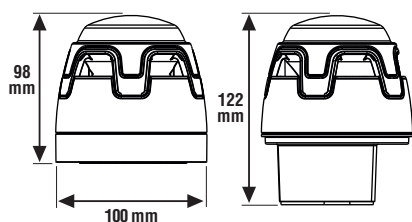
Not suitable for use outdoors or in damp areas. Please use therefore the optional bases and accessories (Part No. CWR, PS188, PS189).

**Accessories**

CWR Base deep IP 65, red  
 PS188 Base deep, O-Ring  
 PS189 Base deep, seal

## CWSS-WA-S7

**NEW**



### Features

- Approved to EN54-3 for sound
- 32 approved tones including bell tone
- LED technology & advanced optics provides light indication at very low current draw
- Synchronisation of flash and sound.
- Operates on 12V and 24V systems

## Combined acoustic/optical alarm device, red flash, white housing

Combined acoustic and optical alarm signaling device in white housing, and offers a selection of 32 signal tones including the DIN tone and other country-specific tones. All tones comply with EN 54-3. Tone configuration takes place via a 6-pin DIP switch. The optical signaling device with amber signal lamp is suitable for applications where a sounder is required as the primary method of alarm, but a supplementary light indicator would also be of benefit.

The device does not comply with EN 54-23.

### Technical Data

Operating voltage	12 ... 29 V DC
Current consumption @ 24 V DC	approx. 22 mA (@ DIN tone 7)
Sound level @ 1 m	107 dB(A) (@ DIN tone 23)
Flash color	red
Connection terminal	0.5 ... 2.5 mm <sup>2</sup>
Ambient temperature	-25 °C ... 70 °C
Air humidity	< 96 % (non-condensing)
Type of protection	IP21C, IP65 with CWW and accessories
Material	PC/ABS, UL94-V0
Color	base: white, similar RAL 9003 cap: amber
Weight	approx. 242 g
Specification	EN 54-3 acoustic signaling device
Dimensions	Ø: 100 mm H: 98 mm Ø: 100 mm H: 122 mm (incl. IP base)



Not suitable for use outdoors or in damp areas. Please use therefore the optional bases and accessories (Part No. CWW, PS188, PS189).

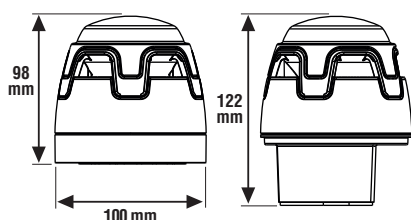
### Accessories

CWW Base deep IP 65, white  
PS188 Base deep, O-Ring  
PS189 Base deep, seal



## CWSS-RR-S3

**NEW**



### Features

- EN 54-3 compliant
- Cat. O under EN 54-23
- Synchronous sound and flash trigger
- Volume adjustable to 2 levels at the device
- Suitable for wall and ceiling mounting

## Combined acoustic/optical alarm device EN 54-3, open class, red flash, red housing


Combined acoustic alarm signaling device is EN 54-3 compliant with additional optical display, in red housing, and offers a selection of 32 signal tones including the DIN tone and other country-specific tones. All tones comply with EN 54-3. Tone configuration takes place via a 6-pin DIP switch. Up to two different signal tones may be activated. Signaling device with flat base, suitable for wall and ceiling mounting.

The integrated optical display with red signal flash is only authorized under EN 54-23 in open category O for 24–29 V DC operating voltage. Below 24 V DC, the device is classified as an acoustic signaling device with additional display. To help define your conventional Visual Alarm Devices (VADs) requirements in line with the EN54-23 standard, we have developed an easy to use online guide. Simply enter the room dimensions and ambient light conditions and the guide will help your device selection:

<http://www.kac.co.uk/EN54-device-chooser.htm>.

### Technical Data

Operating voltage	12 ... 29 V DC
Current consumption @ 12 V DC	approx. 15.5 mA (@ DIN tone)
Current consumption @ 24 V DC	approx. 35.4 mA (@ DIN tone)
Sound level @ 12 V DC	96.5 dB(A) (@ DIN tone)
Sound level @ 24 V DC	102.5 dB(A) (@ DIN tone)
Frequency of flash	approx. 0.5 Hz
Flash color	red
Connection terminal	0.5 ... 2.5 mm <sup>2</sup>
Ambient temperature	-25 °C ... 70 °C
Air humidity	< 96 % (non-condensing)
Type of protection	IP 21C, IP 65 with CWR and accessories
Material	PC/ABS, UL94-V0
Color	red, similar RAL 3020
	cap: transparent
Weight	approx. 236 g
Specification	EN 54-3 acoustic signaling device EN 54-23 optical signaling device, (Cat O, 24 ... 29 V DC)
Dimensions	Ø: 100 mm H: 98 mm Ø: 100 mm H: 122 mm (incl. IP base)

 Not suitable for use outdoors or in damp areas. Please use therefore the optional bases and accessories (Part No. CWR, PS188, PS189). Use of the deep IP socket reduces the dB output by an average of 4 dB. Replacement for Part No. 766240.

### Accessories

CWR Base deep IP 65, red  
PS188 Base deep, O-Ring  
PS189 Base deep, seal

## CWSS-WR-S3

**NEW**



## Combined acoustic/optical alarm device EN 54-3, open class, red flash, white housing

As CWSS-RR-S3, but in a white housing.



## CWR

**NEW**

## Base deep IP 65, red

Base, red, for ENScape signaling device with IP 65 protection rating and sm cable entry.

## Technical Data

Type of protection	IP65 (with accessories)
Material	PC/ABS, UL94-V0
Color	red, similar to RAL 3020
Weight	approx. 47 g
Dimensions	Ø: 100 mm H: 53 mm



5 pcs

## Accessories

PS 188 Base deep, O-Ring

PS 189 Base deep, seal

SC076 Grounding bridge for deep base

## CWW

**NEW**

## Base deep IP 65, white

As CWR, but white color.

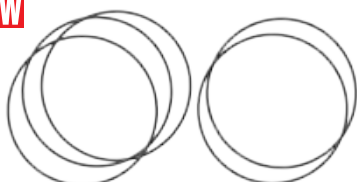
## Technical Data

Color	white, similar to RAL 9003
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5 pcs

## PS188

**NEW**

## O-Ring for deep base

Replacement O-ring for use with deep CWR or CWW base.

## Technical Data

Material	MBR 70
Color	black



5 pcs

## PS189

**NEW**

## Seal for deep base

Seal for use with deep CWR or CWW base for IP 65 protection rating.

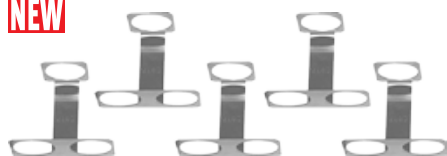
## Technical Data

Material	closed-cell neoprene
Color	black



5 pcs

## SC076

**NEW**

## Ground jumper for deep base

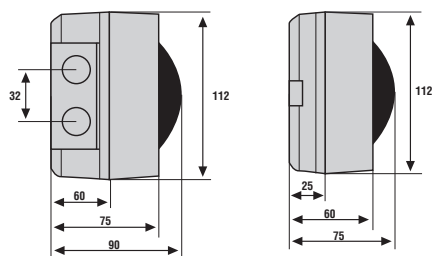
Grounding strap for use with deep CWR or CWW base.

## Technical Data

Material	Stainless steel
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5 pcs



## Features

- Completely bus supplied alarm device
- Powered loop compatible
- Low power consumption
- 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
- Individual control of the sounder and beacon
- Tones can be used for other purposes in addition to warning of fire, making the device ideal for use in schools etc.
- Soft start option, ideal for hospitals and nursing homes

### Acoustic alarm signaling:

- Acoustic pressure up to 99 dB(A) @ 1 m
- Volume programmable in 8 steps via tools 8000
- Up to 26 different languages are available
- 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.



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!!!



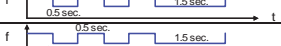











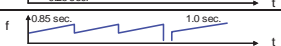
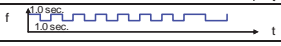



For upgrading 8000 C/M control units, IQ8Lumivox signaling devices must be used. If required, please contact our returns department.

For checking the battery capacity of FACP, the value "quiescent current @ FACP battery" can be added.

## Intelligent Addressable IQ8Alarm

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 - for other languages also refer to the appendix!

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

### Features

- Completely bus supplied alarm device
- Powered loop compatible
- Low power consumption
- Up to 32 alarm devices for each powered loop
- Each alarm device has built-in isolator
- Tones can be used for other purposes in addition to warning of fire, making the device ideal for use in schools etc.
- Soft start option, ideal for hospitals and nursing homes

### Acoustic alarm signaling (dependent on type):

- Acoustic pressure up to 99 dB(A) @ 1 m
- Volume programmable in 8 steps via tools 8000
- Up to 26 different languages are available
- 20 different signaling tones, including DIN tone
- Multilingual speech alarm in 5 different languages
- Alarm signaling, evacuation, and test alarm can each be programmed in different languages
- Speech alarm, 5 pre-programmed alarm texts and other country-typical alarm signals

### 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
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-10 °C ... 55 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 30
	(IP 65 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 base)
Declaration of Performance	DoP-20213130701

### 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	white, similar to RAL 9010
Specification	EN 54-3 acoustic signaling device EN 54-3

### Accessories

806201 IP65 base, white

### 807206

### IQ8Alarm/So signaler with isolator, red



#### Approval: VdS

Same as 807205, but red.

### Technical Data

Color	red, similar to RAL 3020
Specification	EN 54-3 acoustic signaling device EN 54-3

### 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

## 807322.SV98

## IQ8Alarm/Sp signaler with isolator, white, composed version



Approval: VdS

Same as 807322, but with individual text and/or sounds. The maximum recording time per device is 169 seconds.

**Technical Data**

Specification	EN 54-3 EN 54-3
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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. Cancellations or returns are not possible.



Programmed with an individual selection of up to 5 national languages

**Accessories**

806201 IP65 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

807332.SV98

**IQ8Alarm/Sp signaler with isolator, red, composed version**

Approval: VdS

Same as 807322.SV98, but with an individual combination of up to 5 languages, see special order form in the appendix.

**Technical Data**

Specification	EN 54-3 EN 54-3
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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. Cancellations or returns are not possible.

**Accessories**

806202 IP65 base, red

807332.SV99

**IQ8Alarm/Sp signaler with isolator, red, customized version**

Approval: VdS

Same as 807322, but with individual text and/or sounds. The maximum recording time per device is 169 seconds.

**Technical Data**

Specification	EN 54-3 EN 54-3
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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 on request. Cancellations or returns are not possible.

**Accessories**

806202 IP65 base, red

## IQ8Alarm - Combined Alarm and Speech Signaling Devices

### Features

- Completely bus supplied alarm device
- Powered loop compatible
- Low power consumption
- Up to 32 alarm devices for each powered loop
- Each alarm device has built-in isolator
- Tones can be used for other purposes in addition to warning of fire, making the device ideal for use in schools etc.
- Soft start option, ideal for hospitals and nursing homes

### Acoustic alarm signaling (dependent on type):

- Acoustic pressure up to 99 dB(A) @ 1 m
- Volume programmable in 8 steps via tools 8000
- Up to 26 different languages are available
- 20 different signaling tones, including DIN tone
- Multilingual speech alarm in 5 different languages
- Alarm signaling, evacuation, and test alarm can each be programmed in different languages
- Speech alarm, 5 pre-programmed alarm texts and other country-typical alarm signals

### Optical alarm signaling:

- Flash intensity equivalent to 3W Xenon flash light

### 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. 3 Hz
Lighting energy	approx. 3 Y
Luminous intensity	max. 24.4 cd peak/ 4.1 cd effective (red flash)
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-10 °C ... 55 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 30 (IP 65 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 base)
Declaration of Performance	DoP-20213130701

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 weatherproof protection (IP65) can be installed.

### Technical Data

Luminous intensity	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

### 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

Luminous intensity	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.SV98

## IQ8Alarm/FSp signaler with isolator, red, composed 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
Specification	EN 54-3 EN 54-3



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
Specification	EN 54-3 EN 54-3



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

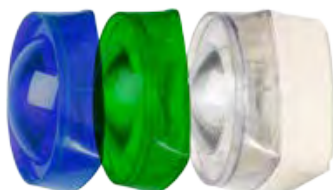
Operating voltage	8 ... 42 V DC (via powered loop)
Quiescent current @ 19 V DC	approx. 55 µA
Quiescent current @ FACP battery	approx. 300 µA @ 42 V
Load factor	3
Frequency of flash	approx. 3 Hz
Lighting energy	approx. 3 Y
Luminous intensity	max. 24 cd peak/ 3.87 cd effective
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-10 °C ... 55 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 30
	IP 65 (with base 806201/806202)
Housing	ABS plastic
Color	base: white, similar to RAL 9010
	cap: amber
Weight	approx. 300 g
Dimensions	Ø: 112 mm D: 75 mm
	Ø: 112 mm D: 90 mm (with IP 65 base)
Declaration of Performance	DoP-20213130701



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

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
Frequency of flash	approx. 3 Hz
Lighting energy	approx. 3 Y
Luminous intensity	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
Ambient temperature	-10 °C ... 50 °C
Storage temperature	-10 °C ... 55 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 30
	IP 65 (with base 806201/806202)
Housing	ABS plastic
Color	base: white, similar to RAL 9010
	cap: blue, green, transparent
Weight	approx. 300 g
Dimensions	Ø: 112 mm D: 75 mm
	Ø: 112 mm D: 90 mm (with IP 65 base)
Declaration of Performance	DoP-20213130701



Replacement: 807214WW



806201 IP65 base, white

## 807214WW

**NEW****Features**

- Completely bus supplied alarm device
- Powered loop compatible
- Low power consumption
- Up to 32 alarm devices for each powered loop
- Each alarm device has built-in isolator
- EN 54-23 compliant
- W category
- Synchronous flash control
- Up to 5 m, room width

## Optical alarm signaling device IQ8Alarm EN 54-23 Kat. W, white flash

Approval: requested

Optical signaling device compliant with EN 54-23 for wall mounting with white signal flash and flat base. The signaling device is suitable for square signal ranges W-2.4-5.0.

**Technical Data**

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 55 µA
Load factor	3
Frequency of flash	approx. 0.5 Hz(factory) /1 Hz
Flash color	white
Ambient temperature	-25 °C ... 70 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 41
Material	Flash lamp PC
Category wall	W-2,4-5,0 (factory)
Mounting height wall	2.4 m
Room width	5 m
Color	white, similar to RAL 9010
Weight	cap: transparent
Specification	approx. 275 g (with base)
Dimensions	EN 54-23 optical alarm signaling device Ø: 112 mm H: 75 mm



Replacement for 807213

## 807214RR

**NEW****Features**

- Completely bus supplied alarm device
- Powered loop compatible
- Low power consumption
- Up to 32 alarm devices for each powered loop
- Each alarm device has built-in isolator
- EN 54-23 compliant
- W category
- Synchronous flash control
- Up to 5 m, room width

## Optical alarm signaling device IQ8Alarm EN 54-23 Kat. W, red flash

Approval: requested

Optical signaling device compliant with EN 54-23 for wall mounting with red signal flash and flat base. The signaling device is suitable for square signal ranges W-2.4-5.0.

**Technical Data**

Operating voltage	8 ... 42 V DC
Quiescent current @ 19 V DC	approx. 55 µA
Load factor	3
Frequency of flash	approx. 0.5 Hz(factory) /1 Hz
Flash color	red
Ambient temperature	-25 °C ... 70 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 41
Material	Flash lamp PC
Category wall	W-2,4-5,0 (factory)
Mounting height wall	2.4 m
Room width	5 m
Color	red, similar to RAL 3020
Weight	cap: transparent
Specification	approx. 275 g (with base)
Dimensions	EN 54-23 optical alarm signaling device Ø: 112 mm H: 75 mm



Replacement for 807214

## Accessories IQ8Alarm

806201

### IQ8Alarm IP 65 base, white



White base, for IQ8Alarm device with protection type IP65 and surface mount cable entry.

#### Technical Data

Type of protection	IP 65
Color	white, similar to RAL 9010

806202

### IQ8Alarm IP 65 base, red



Red base, for IQ8Alarm device with protection type IP65 and surface mount cable entry.

#### Technical Data

Type of protection	IP 65
Color	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. Detector side L x W 175 x 90 mm; Wall side H x W 65 x 90 mm.

#### Technical Data

Material	aluminum
Color	white, similar to RAL 9010



Mounting bracket and installation material

## Intrinsically Safe

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

Ex-category	II 3GD
Explosion protection	EEx nA II T5
Operating voltage	11 ... 14 V DC 10 V DC
Current consumption @ 12 V DC	approx. 300 mA
Sound level	110 dB (A) +/- 3 dB (A)
Ambient temperature	-25 °C ... 55 °C
Storage temperature	-40 °C ... 70 °C
Air humidity	< 90 % (non-condensing)
Type of protection	IP 66, IP 67
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. See tone table on our download website.

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 VO

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;
Current consumption @ 12 V DC	approx. 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 % (non-condensing)
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



According to the conformity declaration, the alarm devices can be used in zones 2 and 22. See tone table on our download website.

## Remote Indicators

### 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.

### 781814



### Features

- 3 continuously or pulsed LEDs
- Power-saving compact indicator

### Remote indicator for Series 9000, 9200 and IQ8Quad, red

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 % (non-condensing)
Type of protection	IP 50
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 IQ8Quad

- Standard base Part No. 805590 required for series IQ8Quad
- max. 1 remote indicator per detector
- max. 60 remote indicators per zone (with max. 30 detectors)
- Indicator flashes if activated (Pulse frequency approx. 1 Hz)

### 801824



### Features

- 4 pulsed LEDs
- Ultra power-saving compact indicator
- Powered loop alarm device

### 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 % (non-condensing)
Type of protection	IP 50
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 IQ8Quad

- Standard base Part No. 805590 required for series IQ8Quad
- max. 3 remote indicator per detector
- max. 103 remote indicators per loop



Door Release System

Automatic Door Systems

Door Holding Devices

Triggering Devices

210-212

213-217

218

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### Features

- Low profile design
- Easy cable entry & exit
- Electronic connection via a terminal clamp
- Door retainers have an integrate release button
- The door retainer can be mounted to the wall, to the floor or to the ceiling behind the door. Due to the large product range almost any requirement profile can be met
- The counterpart is the armature (keeper plate) which is mounted on the door
- Door retainer magnets are delivered with a suitable keeper plate
- Electrical Protection IP54
- Anti-remanence pin
- Integrated reverse polarity and spark suppression diode
- Plastic parts consist of Bayblend material with 30% PA6 glass fiber

Automatic door closing systems for the demarcation of buildings and objects in closed fire compartments for the protection of people and valuables in case of fire.

Automatic door systems consist of triggering devices and locking devices.

In the event of fire, signals created by automatic triggering device cause a release of locking device. Actuation by the manual triggering device also leads to release of locking device.

Fire doors close and prevent the spreading of fires and of any present smoke to bordering areas in a building. This way, fire and dangerous fire aerosols are contained and human life as well as valuables are protected.

Locking device consists of e.g. a clamping magnet with corresponding anchor plate and/or of an automatic door closer. Triggering device consists of a controller, fire detector and release key pushbutton (manual triggering device).

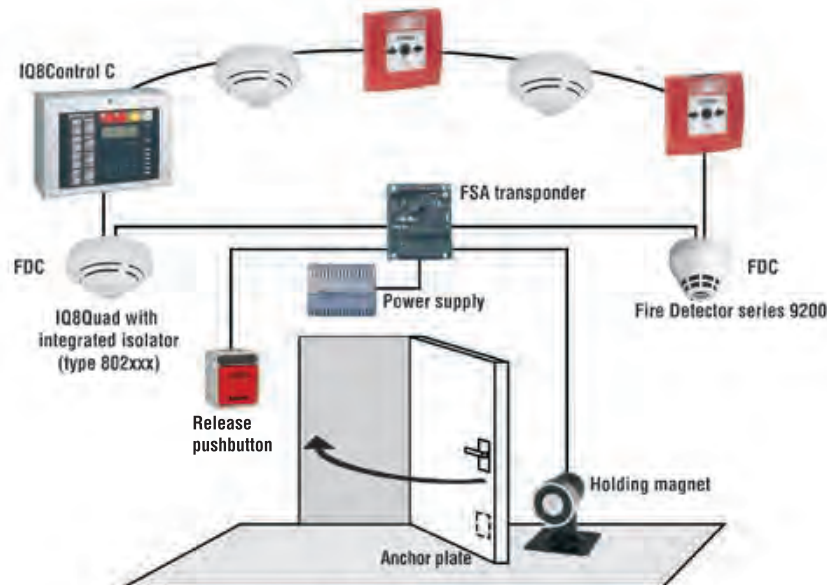
In terms of building directives in Germany, automatic door systems are subject to approval by Deutschen Institut für Bautechnik in Berlin and need a system authorization (for this, see certificates of approval from the DIBt).

The door holding magnets from Honeywell product line are generally vacuum cast and feature IP64 protection class by the basic device.

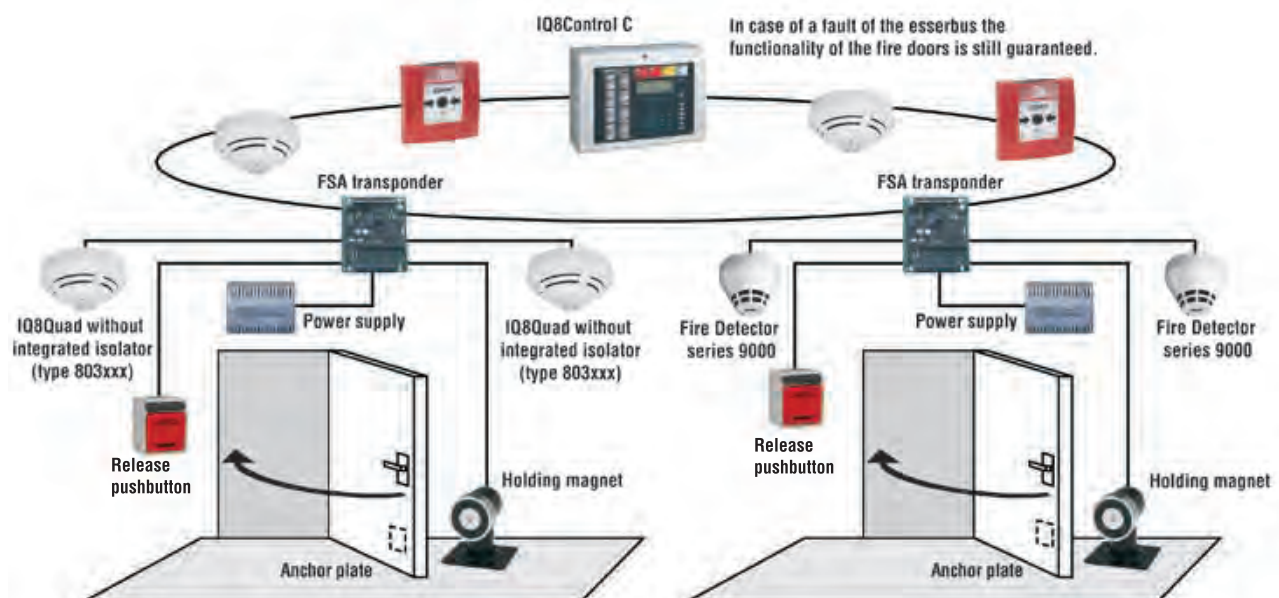
Door holding magnets are fitted with an integral manual release button, allowing the door to be closed without operating the fire alarm.

All the electromagnets are designed to comply with the latest requirements of EN1155 and DIN EN14637.

## Connection Examples

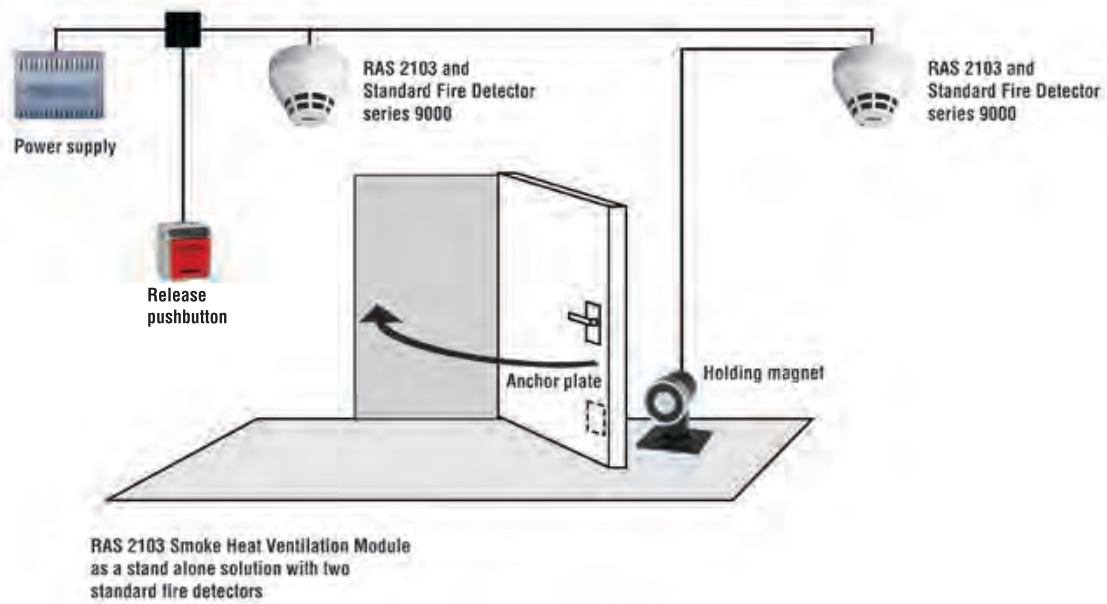


Door release functionality by detectors series 9200 or IQ8Quad as a release element on the esserbus



Preventive fire protection with several doors and the FSA transponder on esserbus

In case of a fault of the esserbus the functionality of the fire doors is still guaranteed.



## Holding Magnets with 400 N Holding Force

The door holding magnets from this product line are generally vacuum cast and feature IP65 protection class by the basic device. The magnets are quality-controlled and are subjected to sampling tests twice per year by the VdS. In addition, all dimensions are in accordance with European specifications and tested in compliance with the EN1155.

960120



### Door magnet with release button incl. flexible anchor, 400 N

Release button changeable to the left or right from the base. Cable entry is possible from behind the unit, as well as through the base, left or right side using included grommets.

In combination with angled mounting plates the unit can be installed to either floor or wall.

Integrated reverse-polarity protection diode and spark suppressing diode.

#### Technical Data

Operating voltage	24 V DC
Power consumption	1.6 W
Type of protection	IP54 (magnet); IP42 (connection)
Dimensions	W: 85 mm H: 110 mm D: 38 mm
CE certificate	0786-CPD-20435

960121



### Door magnet with distance pipe incl. flexible anchor, 400 N, 175 mm

Approval: VdS

Magnet rotary head is fully rotational and is thus suitable for both floor and wall installations.

Customer may shorten distance pipe if necessary.

Integrated reverse-polarity protection diode and spark suppressing diode.

Manual release button on pipe available.

Wall distance: 175 mm

Floor distance: 150 mm

#### Technical Data

Operating voltage	24 V DC
Power consumption	1.6 W
Type of protection	IP54 (magnet); IP42 (connection)
Dimensions	W: 90 mm H: 80 mm Distance: 150/175 mm
CE certificate	0786-CPD-20435

960122

### Door magnet with distance pipe incl. flexible anchor, 400 N, 325 mm

As 960121, but with wall distance 325 mm or floor distance 300 mm.

#### Technical Data

Dimensions	W: 90 mm H: 80 mm Distance: 300/325 mm
------------	--

960130

### Door magnet with distance pipe incl. flexible anchor, 400 N, 475 mm

As 960121, but with wall distance 475 mm or floor distance 450 mm.

#### Technical Data

Dimensions	W: 90 mm H: 80 mm Distance: 450/475 mm
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960124



### Door magnet w/o release button incl. flexible anchor, 400 N

Version with terminal clamp and installation plate.

Integrated reverse-polarity protection diode and spark suppressing diode.

Suitable for wall installation.

#### Technical Data

Operating voltage	24 V DC
Power consumption	1.6 W
Type of protection	IP54 (magnet); IP42 (connection)
Dimensions	W: 55 mm H: 55 mm D: 33 mm
CE certificate	0786-CPD-20435

## Holding Magnets with 490 N Holding Force

960126

**NEW**

### Wall mounted door magnet w/o release button, 490 N

Wall mounted direct current door magnet.

#### Technical Data

Operating voltage	24 V DC
Power consumption	1.5 W
Dimensions	W: 75 mm H: 116 mm D: 43 mm
Approvals	EN155, CPR, EN14637

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
Dimensions	Ø: 50 mm H: 30 mm

## Holding Magnets with 800 N Holding Force

960119

**NEW**

### Door magnet with release button incl. flexible anchor, 800 N

Release button changeable to the left or right from the base. Cable entry is possible from behind the unit, as well as through the base, left or right side using included grommets.

In combination with angled mounting plates the unit can be installed to either floor or wall.

Integrated reverse-polarity protection diode and spark suppressing diode.

#### Technical Data

Operating voltage	24 V DC
Power consumption	2.2 W
Type of protection	IP54 (magnet); IP42 (connection)
Dimensions	W: 85 mm H: 110 mm D: 38 mm
Approvals	EN155, CPR, EN14637

## Door Release System

## Door Holding Devices

960127



### Wall and floor swivel bracket for door magnet 960119 and 960120, angled, 150 mm

This swivel bracket is specially intended for use with 960120 door magnet and thus allows floor or wall installation by means of distance pipe.

#### Technical Data

Dimensions	W: 100 mm H: 150 mm D: 140 mm
Weight	approx. 0.65 kg

960128



### Wall and floor swivel bracket for door magnet 960119 and 960120, angled, 300 mm

As 960127, but with 300 mm pipe length.

#### Technical Data

Dimensions	W: 100 mm H: 300 mm D: 140 mm
Weight	approx. 1 kg

960129



### Floor mounted bracket for door magnet 960119 and 960120

This bracket is especially intended for 960119 and 960120 door magnet. Thus a parallel door installation is possible. Magnet can either be installed within the side panels (to protect from vandalism) or adjacent to the side panels (standard). Due to the increased gauge of steel used, this base is suitable for heavy use (schools etc).

#### Technical Data

Dimensions	W: 95 mm H: 128 mm D: 80 mm
Weight	approx. 0.65 kg

## Explosion-Proof

767153



### Ex door magnet, 1588 N

Approval: VdS, TÜV ATEX

Explosion-proof and encapsulated holding magnet for explosion endangered areas. Wall-mounted with cable entry via cable gland.

#### Technical Data

Operating voltage	24 V DC
Power consumption	3 W
Holding force	1588 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	IP56
Dimensions	W: 130 mm H: 117 mm D: 106 mm
EC-type examination certificate	TÜV01 ATEX 1778 X



Delivery without anchor plate.



on demand



Approved anchor plates must be used in EX zones.

## Keeper Plates

960110

### Flexible keeper plate for door magnets, Ø 55 mm



The flexible keeper plate is designed for doors with an angle. The anchor plate is 60° adjustable and fixable in each direction through an articulated joint. The surface is grounded and protected against corrosion.

#### Technical Data

Weight	approx. 0.15 kg
Dimensions	Ø: 55 mm W: 55 mm H: 55 mm D: 50 mm

767030

### Anchor plate DH50-AP-S



Fixing plate for door retainers with a diameter of 50 mm.

#### Technical Data

Dimensions	Ø: 50 mm W: 55 mm H: 55 mm D: 18 mm
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767031

### Anchor plate DH70-AP-S

As 767030, but with Ø 70 mm anchor plate.

#### Technical Data

Dimensions	Ø: 70 mm W: 75 mm H: 75 mm D: 26 mm
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## Power Supply Units for Door Release System

765612

Power supply unit for automatic door release systems, 12 V, 3 A



Surface mount housing 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 for automatic door release systems, 24 V, 1.5 A



As 765612, but with 24 Volt.

**Technical Data**

Output voltage	24 V DC
Output current	max 1.5 A

Release Pushbuttons

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767813.10

**Surface mount release pushbutton for automatic door release system, German**

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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	IP44
Housing	ABS plastic
Color	gray, similar to RAL 7035
Weight	approx. 120 g

767814.10

**Flush mount release pushbutton for automatic door release system, German**

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Flush mount release pushbutton for manual actuation of locking devices with double rocker switch insert.

**Technical Data**

Contact load	250 V AC/10 A
Type of protection	IP44
Housing	ABS plastic
Color	white
Weight	approx. 95 g

796349

**Label for release pushbutton**

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Red sticker label for release pushbutton 767813 and 767814.

 10 pcs



Installation & Service

Installation Accessories  
Housings

220-224  
225-226

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## Surge Protection

764730



### OVP module for TTY interfaces and conventional 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	10000 A
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 ... 85 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 20



Low resistance ground connection is a must for proper surge protection functioning.

#### Accessories

764737 Base for overvoltage protection module

764731



### OVP module for essernet and RS485 interfaces

Space-saving combined surge protector with LifeCheck for the protection of one wire 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	10000 A
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 ... 85 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 20

#### 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 ... 85 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 20



Low resistance ground connection is a must for proper surge protection functioning.



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	10000 A
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 ... 85 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 20 (connected)

### Accessories

764737 Base for overvoltage protection module

764734

## OVP module



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	10000 A
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 ... 85 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 20 (connected)

### Accessories

764737 Base for overvoltage protection module

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	10000 A
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 ... 85 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 20

 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 ... 85 °C
Air humidity	< 95 % (non-condensing)
Type of protection	IP 20

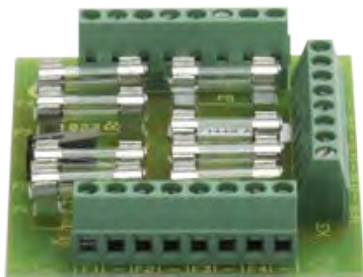


Tool-free attachment on 35 mm mounting rails.

## Junction Box Module

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 <sup>2</sup>
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-25 °C ... 75 °C
Air humidity	< 95 % (non-condensing)
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

## Accessories

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

788602

**Top-hat rail****Technical Data**

Dimensions	L: 400 mm
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Mounting kit

788652

**Mounting rail for FACP**

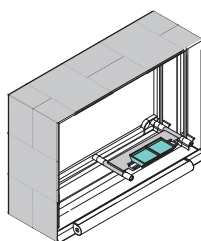
The top hat rail installation kit can be retrofitted into the IQ8Control and FlexES Control unit housing. The hat rail is fitted to the mounting board via two screws. A maximum of two (Part No. 788603.10) module housings (option) can be mounted to the control unit housing.

**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	IP 67
Material	Polyamide
Color	gray
Cable diameter	3 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	IP 67
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	IP 40
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	IP 40
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)

788650.10

**Housing surface mount, white**

Same as 788600, but white.

**Technical Data**

Type of protection	IP 40
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	IP 40
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)

## 788655



### IP55 base adapter for 788656

IP base adapter for extreme environmental conditions.

#### Technical Data

Type of protection	IP55
--------------------	------

## 788656



### High IP housing

Housing for esserbus transponder to increase IP rating in connection with 788655.

#### Technical Data

Type of protection	IP55
--------------------	------



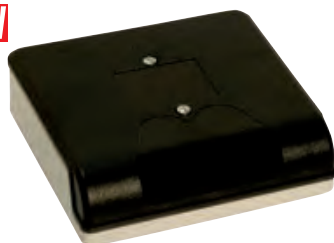
Housing + front cover



788655 base must be ordered separately for IP55 protection.

## M200SMB

**NEW**



### Surface mounting housing for one IQ8FCT XS module

Surface enclosure for one module with semi-transparent cover to see module label, address and LED.

#### Technical Data

Dimensions	H: 143mm W: 130 mm D: 49 mm
------------	-----------------------------

## SMB6-V0

**NEW**

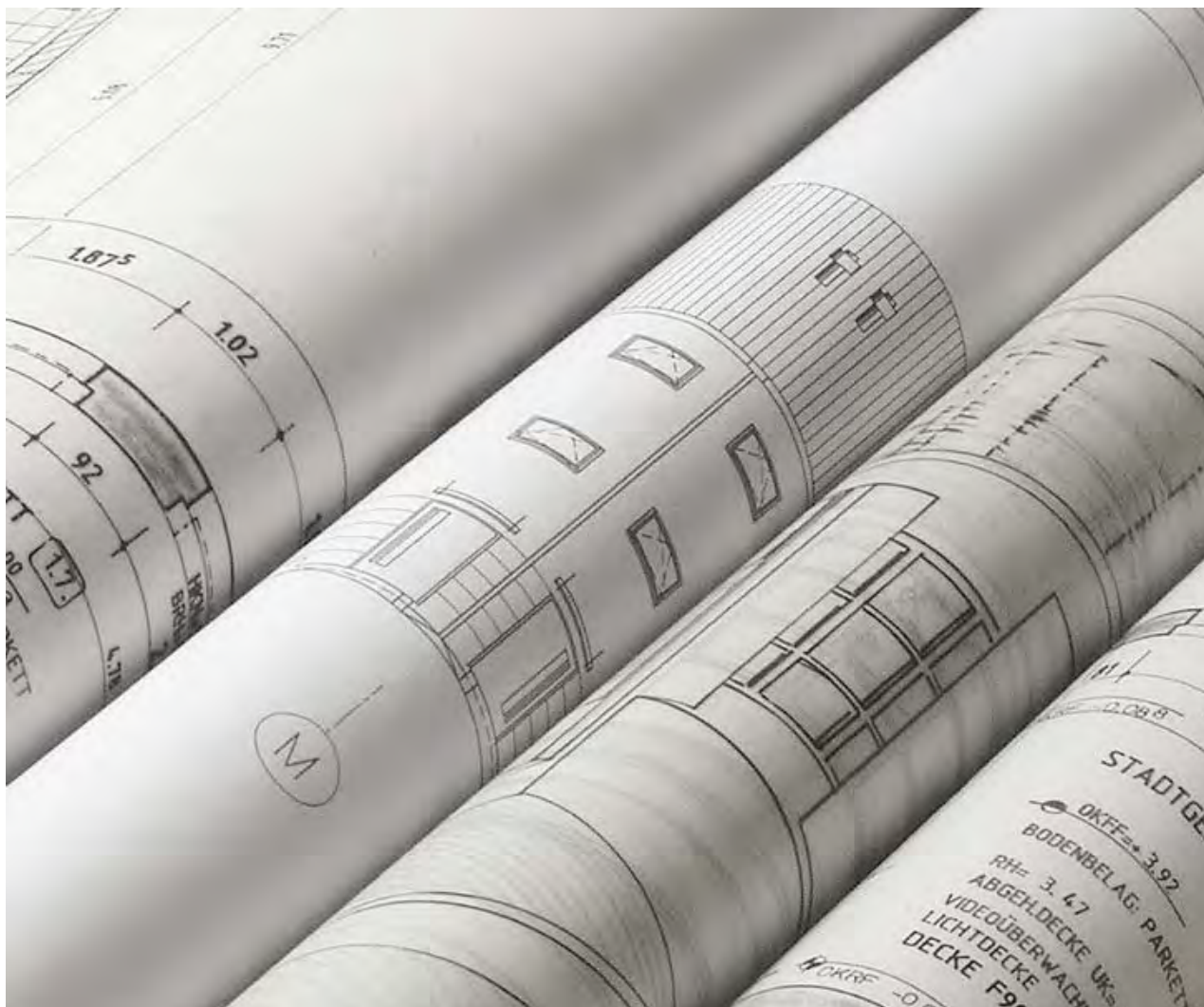


### Surface mount housing for 6 IQ8FCT XS modules

Surface enclosure for 6 modules with semi-transparent cover to see module address and LEDs.

#### Technical Data

Dimensions	H: 180 mm W: 245 mm D: 100 mm
------------	-------------------------------



## Appendix

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# 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>. The examples shown below refer to a wire diameter of 0.8 mm.

The Excel spread sheet for downloading contains as well the maximum powered loop length for wires with a cross section of 1.0, 1.5, 2.5 mm².

## 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 1,000 m.....	73 up to 78
up to 1,100 m.....	67 up to 72
up to 1,300 m.....	61 up to 66
up to 1,500 m.....	55 up to 60
up to 1,700 m.....	49 up to 54
up to 2,000 m.....	43 up to 48
up to 2,500 m.....	37 up to 42
up to 3,000 m.....	31 up to 36
up to 3,500 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 pcs. IQ8Alarm devices can be connected  
to each loop depending on the loop length (up to 700 m at a wire gauge 0.8 mm)

### Example 2:

Various types of alarm signaling devices are connected to one loop:

	Load factor
4 x 807205 alarm devices with load factor 3.0	= 4 x 3.0 = 12
	+
27 x O <sup>2</sup> T/So multisensor fire detector IQ8Quad (802384) with load factor 2.0	= 27 x 2.0 = 54

**total load factor = 66**

As shown in table 1.1, the maximum loop length for a total load factor of 66 is 1,300 m (at a wire gauge 0.8 mm)

### Example 3:

For alarm signaling with sounder, 25 x 802384 IQ8Quad O<sup>2</sup>T/So detectors are installed - each in one office. What is the maximum loop length?

Load factor for one 802384 IQ8Quad O<sup>2</sup>T/So detector = 2 (load factor)

25 pcs. IQ8Quad O<sup>2</sup>T/So x 2 (load factor)






**total load factor = 50**

As shown in table 1.1, the maximum loop length is 1,700 m (at a wire gauge 0.8 mm)


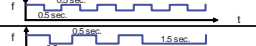
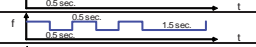




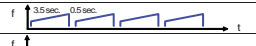




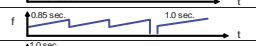






# Order Information for Alarm Signaling Devices IQ8Quad and IQ8Alarm - composed combination of other languages and customized version

1. The IQ8Quad O<sup>2</sup>T/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. 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 <sup>2</sup> 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 <sup>2</sup> T/Sp multisensor fire detector IQ8Quad with isolator, composed version	802386.SV98



#### Description:

**Individual combination of languages**

#### For example:

Phrase 1 - 5	NL_ni
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 <sup>2</sup> 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 <sup>2</sup> T/Sp multisensor fire detector IQ8Quad with isolator, customized version	802386.SV99



#### Description:

**Customer specific announcements/signals**

#### For example:

Phrase 1 - 5	NL_ni
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. المبني اخلاء و طواري. مخرج	- - -	في طاري. وقوع عن الابلاغ تم الانتظار يرجى المبني ارشادات على للحصول	النظام لفحص الرسالة هذه للازعاج ناسف	الطواري. حالة الغاء. تم ازعاج اي عن تعتذر 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！ 现在发生火警， 请保持冷静， 请尽快离开现场！	请注意！ 请注意！ 现在发生火警， 请留意广播， 或注意现场指示！	请注意！ 现在发生紧急事故， 请等待下一步指示。	注意！ 紧急事故已经排除， 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, kiinteistöissä on havaittu automaattinen paloilmotus. Poistu rakennuksesta käyttäen ohjattuja reittejä. Hissien käyttö on kielletty.	Huomio, turvallisuussystä kiinteistöistä 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 normaaliksi.
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. Preguem 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 pričekajte 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 byggnaden genom 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 požiarňi 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 váratlan esemény történt. További utasításig kérem várjanak!	Ez egy teszttüzenet.	Vészhelyzet törölve. Az esetleges kellemetlenségekért elnézésüket kérjük.

# ORDER FORM FOR IQ8 COMPOSED LANGUAGES

Honeywell Life Safety Austria GmbH

Fax +43 1 600 6030-900  
hls-austria@honeywell.com

## 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:	
Object:	

## Order Combined Version

___ 802385.SV98	Quantity ___
___ 807372.SV98	Quantity ___
___ 807322.SV98	Quantity ___
___ 807332.SV98	Quantity ___
___ 802386.SV98	Quantity ___

## Languages

Choose max. 5 languages	Country Code acc. to Speech ISO 3166	Code acc. to ISO 639-1
___ Arabic	SA	ar
___ Bosnian	BA	bs
___ Catalan	ES	ca
___ Chinese Mandarin	CN	zh
___ Croatian	HR	hr
___ Czech	CZ	cs
___ Danish	DK	da
___ Dutch	NL	nl
___ English	GB	en
___ Finnish	FI	fi
___ French	FR	fr
___ German	DE	de
___ Greek	GR	el
___ Hungarian	HU	hu
___ Italian	IT	it
___ Norwegian	NO	no
___ Polish	PL	pl
___ Portuguese	PT	pt
___ Portuguese/Brazil	BR	pt
___ Romanian	RO	ro
___ Russian	RU	ru
___ Serbian	RS	sr
___ Swedish	SE	sv
___ Slovak	SK	sk
___ Slovenian	SL	sl
___ Spanish	ES	es
___ Turkish	TR	tr

## 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:

\_\_\_\_\_  
Date/Signature

To be filled out by Honeywell Life Safety Austria GmbH:  
Please forward to Novar GmbH when filled out!

Order number:
Position:

# ORDER FORM FOR IQ8 COMPOSED LANGUAGES

Honeywell Life Safety Austria GmbH

Fax +43 1 600 6030-900  
hls-austria@honeywell.com

## Customer Data

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<b>Street:</b>	<b>Zip Code/City:</b>
<b>Contact Person:</b>	<b>E Mail:</b>
<b>Telephone:</b>	<b>Fax:</b>
<b>Order Number/Order Text:</b>	

## Order Combined Version

___	<b>802385.SV99</b>	Quantity_____
___	<b>807372.SV99</b>	Quantity_____
___	<b>807322.SV99</b>	Quantity_____
___	<b>807332.SV99</b>	Quantity_____
___	<b>802386.SV99</b>	Quantity_____

## Technical Specifications

File with announcements/signals sent to contact person in Neuss/Germany:

<b>Contact Person:</b>
<b>Address:</b>
<b>E Mail:</b>

Sample should be approved by (customer contact details):

<b>Name:</b>
<b>Telephone:</b>
<b>Email:</b>
<b>Address:</b>
<b>Remark:</b>

## Take note, these standards have to be followed:

- max. length of all 5 announcements/signals is 25 seconds per file; one IQ8Quad or IQ8Alarm can record 169 seconds in total

## Specifications for tone recording studio:

- WAVE or AIFF files mono with a sampling rate of 48kHz and a word width of 16-24bits
- Hi-pass: 220 Hz, 12 dB/oct.
- Lo-pass: 5 kHz, 12 dB/oct.
- Multi-band-compressor, 3-band
  - a. 25 Hz - 350 Hz. - 5,3 dB
  - b. 350 Hz - 5kHz. - 2,9 dB
  - c. 5 kHz - 18 kHz. - 6,4 dB
- Brickwall-limiter

## Info:

Depending on the sound quality we might have to pass it through an EQ, to make some modifications.

Additional costs for recording and/or fine tuning will be charged onetime per new file with a first order!

Second order with the same file without additional costs!

## Repeat Orders or Additions

For repeat orders or additions please give the Order No. or the serial number of the detector with special languages.

<b>Order Number:</b>
<b>Serial Number:</b>

To be filled out by Honeywell Life Safety Austria GmbH:  
Please forward to Novar GmbH when filled out!

Order number:

Position:

Date/Signature

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