Esmi EN 54 ALC Fire Range Product Catalogue

Catalogue 11/2019

Esmi Sense FDP, FX 3NET,

Essentia and Intellia EN 54 fire offering

schneider-electric.com

Life Is On Schneider Electric

firexpert-training-web.azurewebsites.net
Fire Expert
FIRE DETECTION SYSTEM
System Monitor
Faults
Disablements
Event Wall
FDP 221 PORTABLE DEMOSYSTEM
System identifier
Loop
Zone
ALL
Panel: 1

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Our Company

Schneider Electric Fire & Security Oy is the leading specialist, manufacturer and developer of fire detection and security systems in Nordic and Baltic countries and has 80 years of experience in the security and safety business.

Schneider Electric Fire & Security Oy is part of Schneider Electric, a global specialist in energy and security management with operations in more than 100 countries and 150.000 plus employees.
Schneider Electric Fire & Security Oy operates in nearly 15 countries in Europe and is continuously expanding business all around the world.

More information about our products in Fire and Security I Schneider Electric

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http://www.se.com/

Schneider Electric knowhow is recognised around the world.
Fire detection system is certified in accordance with standards EN 54 and UL 864.

Schneider Electric is a member of Euralarm, an association of European manufacturers and installers of fire and security systems, and particpates also in international standardisation work.

Product Families

Esmi Sense FDP fire Alarm panels:

- FDP221
- FDP252
- FDP292

EcoStruxure Fire Expert

Esmi Sense FDP Panel

Schneider Electric has launched the new Esmi Sense fire detection panels. Together with EcoStruxure Fire Expert application, Esmi Sense FDP is the first real on-line Fire Detection Solution. With Fire Expert, user can online monitor and manage their fire systems with PC, smartphone, or tablet anytime anywhere. Esmi Sense FDP fire detection panels are available in three different models covering small to large applications. Full range of detectors can be connected to the system.

EcoStruxure Fire Expert

To meet the challenges of today and the future, Schneider Electric offers new innovative online applications. From now on, with EcoStruxure Fire Expert, one can monitor the different Esmi FX 3NET and Esmi Sense FDP Fire detection systems on smart phone or other mobile devices. The system is based on a cloud computing model, providing easy and secure access to fire systems information wherever you are.

FX 3NET

The FX 3NET intelligent fire detection alarm system and panels from Schneider Electric have a modular construction and provide features for efficient and reliable fire safety. The control panels are FXS 3NET, FXM 3NET and FXL 3NET. The full range of Schneider Electric's intelligent and conventional detectors can be connected to the system.

Wireless XPA System products

Wireless XPA System products are Schneider Electric's wireless intelligent fire detector range. Wireless XPA System products are designed for use in buildings and structures where electrical wiring installations are restricted or difficult

Intellia

Intellia Series devices are compatible with FX- and FDP-panels equipped with ALCB, ALC2 (or ACC at FX 101) loop controllers. Address space 126 addresses /loop.

Essentia

The Essentia Series devices are compatible with FX- and FDP-panels equipped with ALCB, ALC2 (or ACC at FX 101) loop controllers. Address space 126 addresses /loop.

EcoStruxure Fire Expert- Siteseeing made Smarter

The Internet of Things (IoT), internet connectivity and cloud computing, is transforming how we live and work—and at an unprecedented scale.

To meet the challenges of today and the future, Schneider Electric offers new innovative online applications. From now on, with EcoStruxure Fire Expert, one can monitor the different Esmi Sense FDP and Esmi FX 3NET Fire detection systems on smartphone or other mobile devices. The system is based on a cloud computing model, providing easy and secure access to fire systems information wherever you are. This saves time in maintenance and operations. In addition, business risks are reduced with better predictability.

Esmi Sense FDP and EcoStruxure Fire Expert online solution let you optimize efficiency in your business. Specifically, solution helps to make fact-based decisions and enhances your time-consuming operations. You will always know the current situation in each location. The situational awareness also reduce your business risks.

The Esmi Sense FDP fire detection panel together with Fire Expert is a revolutionary online solution that will change the way you work.

EcoStruxure™
Innovation At Every Level

DETEKTOR INTERNATIONAL AWARD
Innovative Achievement 2016
ALARM & DETECTION

WURTH
Cessna CAP 20

Esmi Sense Edition

Esmi Sense FDP Fire Detection Panel

The Esmi Sense family is an intelligent, addressable and networked fire detection system. Together with EcoStruxure Fire Expert software, Esmi Sense FDP is the first real Online Fire Detection Solution. With Fire Expert, user can online monitor and manage their fire systems with PC, smartphone or tablet anywhere at any time. Esmi Sense FDP fire alarm panels are available in three different models covering small to large applications. A Full range of detectors can be connected to the system.

Esmi Sense FDP fire detection panel is for all types of buildings - small, medium and large. All panels are CPR certified and comply with European standards EN 54-2 and 4. Esmi Sense FDP is a winner of reddot design award in 2019.

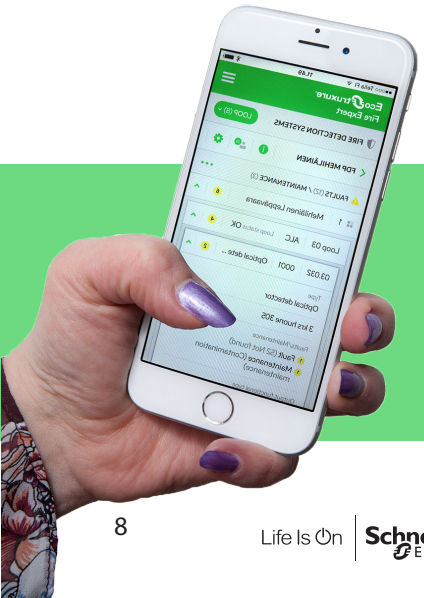
reddot design award
winner 2019

The FDP Family

- 3 different panel versions
- Can be networked up to 32 panels.
- Seeing – Visible hierarchy gives free choice of “master – slave”
- Modularity construction

FDP has 2 to 8 INTELLIGENT detection loops

- All devices are continually communicating with FDP control panel
- Communication contains device type-, detection algorithms and sensor status information
- Each device can be individually disabled
- Detection algorithms and other parameters can be separately changed to each detector with configuration software
- FDP can have 2 to 8 intelligent detection loops



Info and Auxiliary products

FX101A Sense Fire Detection Panel is a powerful one loop fire detection control panel for ALC compatible intelligent detectors.

MPO Sense Multi Protocol Converter operates as an interface between the info communication protocol and defined external protocols.

FMP Sense Fireman's Panel functions as pure display device or it is used to silence and reset the fire alarm.

REP Sense Protocol Repeater duplicates the info serial communication line.

MCO Sense Multi Logic Control Unit addressable outputs.

DAP Sense Delay Alarm Panel is used for handling delayed fire alarms.

EN 54 offering
Fire Detection Panels
Esmi Sense FDP

Esmi Sense FDP221 is a small size panel, which is compatible with other Esmi fire detection equipments- including Essentia and Intellia devices.

Esmi Sense FDP221 Fire Detection Panel

Technical data	
Product number	FFS00703910xx Datasheet: D01779GB
Dimensions	360 x 430 x 142 mm
Weight	6.6 kg
Operating temperature	+5...+40 °C
Modular construction	2 free slots
Batteries	2 x 12Ah 12V
IP rating	IP30
Standards	EN 54-2, EN 54-4

xx= Panel language eg. GB= English

Esmi Sense FDP252 is a medium size panel, which is compatible with other Esmi fire detection equipments- including Essentia and Intellia devices.

Esmi Sense FDP252 Fire Detection Panel

Technical data	
Product number	FFS00703920xx Datasheet: D01779GB
Dimensions	580 x 430 x 142 mm
Weight	10.6 kg
Operating temperature	+5...+40 °C
Modular construction	5 free slots.max (4 loop controllers)
Batteries	2 x 17Ah 12V
IP rating	IP30
Standards	EN 54-2, EN 54-4

xx= Panel language eg. GB= English

Esmi Sense FDP292 is a large size panel, which is compatible with other Esmi fire detection equipments- including Essentia and Intellia devices.

Esmi Sense FDP292 Fire Detection Panel

Technical data	
Product number	FFS00703930xx Datasheet: D01779GB
Dimensions	580 x 430 x 142 mm
Weight	11.1 kg
Operating temperature	+5...+40 °C
Modular construction	9 free slots.max (4 loop controllers)
Batteries	Separate battery cabinet required
IP rating	IP30
Standards	EN 54-2, EN 54-4

xx= Panel language eg. GB= English

EN 54 offering

Fire Detection Panels

Esmi Sense Info and Auxiliary products

The FX101A is a powerful stand alone one loop fire detection control panel. The number of detection loops- or Input/Output controllers cannot be extended. The panel is compatible only with other Esmi Sense fire detection equipment. One addressable detection circuit with 126 addresses. Compatitable with Essentia and Intellia devices.

FX101A Sense Fire Detection Panel

Technical data	
Product number	FFS00703816xx Datasheet: D01789GB
Dimensions	328 x 425 x 130 mm
Weight	5.4 kg
Operating temperature	+5...+40 °C
Batteries	2x12Ah 12V
IP rating	IP30
Standards	EN 54-2 and EN 54-4

xx= Panel language eg. GB= English

The MCO Sense Multi Logic Control Unit can control addressable outputs, control panel outputs, OC100R and OC100L outputs. Can be connected to Esmi Sense FDP with additional RS485- serial communication plug-in module. Compatitable with Esmi Sense FDP and FX 3NET panels.

MCO Sense Multi Logic Control Unit

Technical data	
Product number	FFS00703854 Datasheet: D01876GB
Dimensions	379 x 231 x 54 mm
Weight	2,1 kg
Operating temperature	+5...+40 °C
Operating voltage	24Vdc
IP rating	IP30
Serial communication ports	In: RS485 or RS232 Isolated Out: RS485, RS232

The REP Sense Protocol Repeater duplicates the INFO serial communication line. Can be connected to Esmi Sense FDP panel with additional RS485- serial communication plug-in module. Compatitable with Esmi Sense FDP and FX 3NET panels.

REP Sense Protocol Repeater

Technical data	
Product number	FFS00703848 Datasheet: D01786GB
Dimensions	379 x 231 x 54 mm
Weight	2,1 kg
Operating temperature	+5...+40 °C
Operating voltage	24Vdc
IP rating	IP30
Serial communication ports	In: RS485 or RS232 Isolated Out: RS485

EN 54 offering

Fire Detection Panels

Esmi Sense Info and Auxiliary products

FMP Sense Fireman's Panel

Technical data	
Product number	FFS00702606 Datasheet: D01787GB
Dimensions	379 x 233 x 54 mm
Weight	2,35 kg
Operating temperature	+5...+40 °C
Operating voltage	24Vdc
IP rating	IP30
Serial communication ports	In: RS485 Out: RS485 Service: RS232 or USB

The FMP Sense Fireman's Panel is used in fire brigade as a primary information source to announce the place of alarm in the building. The panel can function as pure display device or it can be used to silence and reset the fire alarm. Connected to Esmi Sense FDP panels with additional RS485- serial communication plug-in module. Compatitable with Esmi Sense FDP and FX 3NET panels.

DAP Sense Delay Alarm Panel

Technical data	
Product number	FFS00702607 Datasheet: D01788GB
Dimensions	379 x 233 x 54 mm
Weight	2,35 kg
Operating temperature	+5...+40 °C
Operating voltage	24Vdc
IP rating	IP30
Serial communication ports	In: RS485 or RS232 Out: RS485 Service: RS232 or USB

The DAP Sense Delay Alarm Panel is used for handling of delayed fire alarms. The DAP panel shows “normal” fire alarms too but does not allow any user operations except scrolling. The delay alarm function is configured in the Esmi Sense FDP panel. Connected to Esmi Sense FDP panels with additional RS485- serial communication plug-in module.

MPO Sense Multi Protocol Converter

Technical data	
Product number	FFS00703853 Datasheet: D01791GB
Dimensions	379 x 231 x 54 mm
Weight	2,1 kg
Operating temperature	+5...+40 °C
Operating voltage	19...30Vdc
IP rating	IP30
Serial communication ports	In: RS485 or RS232 Out: RS485 Isolated:: RS232

The MPO Sense Multi Protocol Converter operates as an interface between the Info communication protocol and defined external protocols. Connected to Esmi Sense FDP panels with additional RS485- serial communication plug-in module.

EN 54 offering

Fire Detection Panels

Esmi Sense frames and modem

Flush Mounting Frames

Technical data	
Flush mounting frame FDP221 FFS00703962 Dimensions: 510 x 85 x 475 mm	
Flush mounting frame set FDP221 FFS00703960 Dimensions: 510 x 85 x 475 mm	
Flush mounting frame FDP252/292 FFS00703963 Dimensions: 510 x 30x 635 mm	
Flush mounting frame set FDP252/292 FFS00703961 Dimensions: 510 x 30 x 635 mm	

Modem

Technical data	
FDP Built In 3/4G modem without SIM FFS00702580 Modem is used to connect Esmi Sense FDP Fir Alarm Panel to Internet. SIM card needs to be bought separately.	

EcoStruxure Fire Expert Licenses

Technical data	
Fire Expert system view license	**FFS00704002**
Push Notifications license	**FFS00704003**
Commission & testing license	**FFS00704004**
Maintenance license	**FFS00704005**
Configuration License	**FFS00704010**

EN 54 offering

Fire Detection Panels

Esmi Sense Battery cabinets

Battery Cabinets

Technical data	Cabinets
Esmi Battery cabinet FDP 4 x 12 Ah FFS00704620 Dimensions: 360 x 430 x 142 mm	
Esmi Chart cabinet FDP A4 FFS00704640 Dimensions: 360 x 430 x 142 mm	
Esmi Battery cabinet FDP 4 x 17 Ah FFS00704630 Dimensions: 580 x 430 x 142 mm	
Esmi Chart cabinet FDP A3 FFS00704650 Dimensions: 580 x 430 x 142 mm	

EN 54 offering

Fire Detection Panels

FX 3NET Fire Detection Panels

The FXS 3NET is a intelligent fire detection panel with modular construction and new features for efficient and reliable fire safety. The FXS 3NET is compatible with Essentia and Intellia devices and Esmi Sense FDP system. External power or coupling to FX, FXM or FXL panels required.

Fire Alarm Panel FXS 3NET

Technical data	
Product number	FFS00703814xx Datasheet: D01688GB
Dimensions	328 x 417x79 mm
Modular construction	1 free slot
Weight	4.4 kg
Operating temperature	+5...+40 °C
Operating voltage	24Vdc
IP rating	IP30
Standards	EN 54-2

xx= Panel language eg. GB= English

The FXM 3NET is a small size intelligent fire detection panel, which have a modular construction and new features for efficient and reliable fire safety. The FXM 3NET is compatible with Essentia and Intellia devices and Esmi Sense FDP system.

Fire Alarm Panel FXM 3NET

Technical data	
Product number	FFS00703800xx Datasheet: D01688GB
Dimensions	328 x 425 x 130 mm
Weight	6 kg
Modular construction	2 free slots
Batteries	2 x 12Ah 12V batteries
Operating temperature	+5...+40 °C
IP rating	IP30
Standards	EN 54-2, EN 54-4

xx= Panel language eg. GB= English

EN 54 offering

Fire Detection Panels

FX 3NET Fire Detection Panels

The FX 3NET is intelligent fire detection panel with modular construction new features for efficient and reliable fire safety. The FX 3NET is compatible with Essentia and Intellia devices and Esmi Sense Edition.

Fire Alarm Panel FX 3NET

Technical data	
Product number	FFS00703602xx Datasheet: D01688GB
Dimensions	578 x 425 x 130 mm
Weight	11 kg
Modular construction	5 free slots. max 4 loop controllers
Batteries	2 x 17Ah 12v batteries
Operating temperature	+5...+40 °C
IP rating	IP30
Standards	EN 54-2, EN 54-4

xx= Panel language eg. GB= English

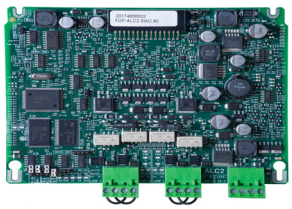
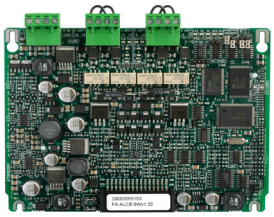
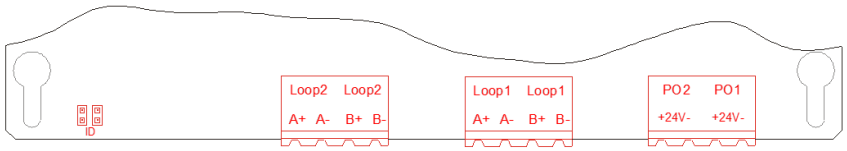
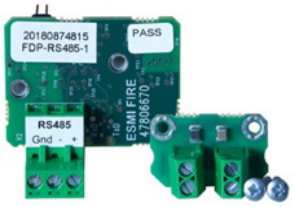
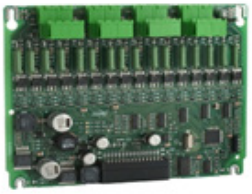
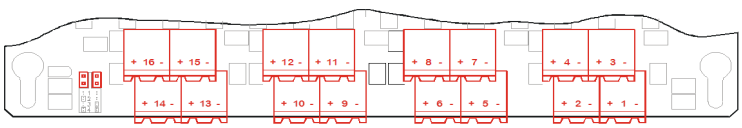
The FXL 3NET is a large size intelligent fire detection panel with modular construction and new features for efficient and reliable fire safety. The FXL 3NET is compatible with Essentia and Intellia devices and Esmi Sense Edition.

Fire Alarm Panel FXL 3NET

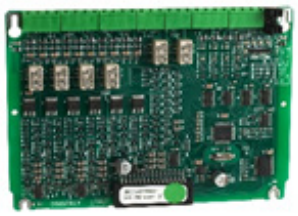
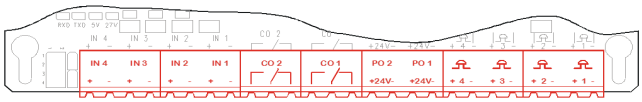
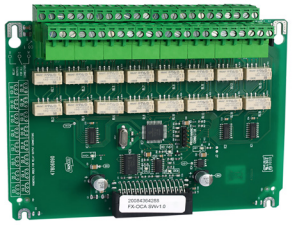
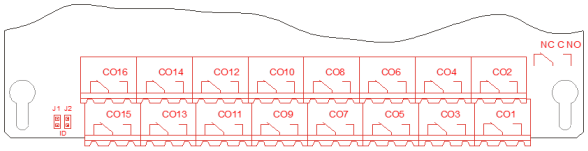
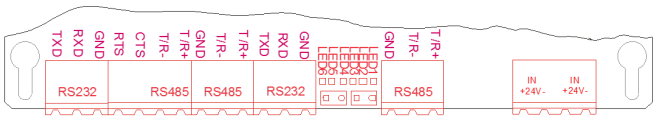
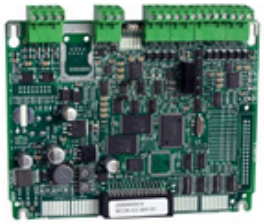
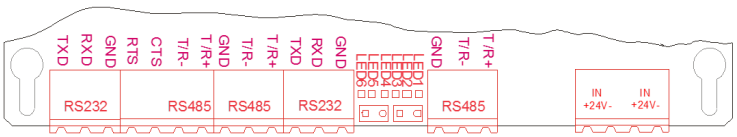
Technical data	
Product number	FFS00703702xx Datasheet: D01688GB
Dimensions	578 x 425 x 130 mm
Weight	12 kg
Modular construction	9 free slots. max 4 loop controllers
Batteries	Separate battery cabinet required
Operating temperature	+5...+40 °C
IP rating	IP30
Standards	EN 54-2, EN 54-4

xx= Panel language eg. GB= English

EN 54 offering
Expansions

		Description	Dimensions (mm) height x width x depth	Weight	Panel connection
FX-ALC2 **FFS00702519** 2 addressable loops for Intellia/Essentia products. 126 addresses/loop. 2x24Vdc 500mA monitored output. Max. 60 Ω loop cable resistance.		Esmi Loop Controller ALC2 (For FDP Panels)	160x135x18 mm	179 g	Bus board
FX-ALCB **FFS00702517** 2 addressable loops for Intellia/Essentia products. 126 addresses/loop. 2x24Vdc 500mA monitored output. Max. 60 Ω loop cable		Loop controller (For FX 3NET panels)	160x135x18 mm	179 g	Bus board
External connections FX-ALC2 FX-ALCB					
Info Line Option Board 1xRS485 **FFS00702523** FDP Option Board when RS485 info communication is needed.		Info Line Option Board	215 x 160 x 55 mm	125g	
FXCOMM Option Board 2xRS485 **FFS00702524** FDP Option Board when FX/FDP networked communication is needed.		FXcomm Option Board	215 x 160 x 55 mm	150g	
FX-CLC **FFS00702512** 16 conventional loops. EOL 4k7 or 2k94		Loop controller	160 x 135 x 33 mm	215 g	Bus board
External connections FX-CLC					

EN 54 offering
Expansions

		Description	Dimensions (mm) height x width x depth	Weight	Panel connection
FX-IOC **FFS00702530** 4 clean contact inputs. 2 clean contact outputs 30Vdc 1A max 4 alarm device lines max. 500mA each. 2x24Vdc 500mA monitored output.		Input output controller	160 x 135 x 18 mm	174 g	Bus board
External connections FX-IOC					
FX-OCA **FFS00702531** 16 clean contact outputs max 30Vdc 1A		Output controller	160 x 135 x 33 mm	232 g	Bus board
External connections FX-OCA					
REPX-OB **FFS00703833** Duplication of the INFO communication line. Input port: RS485 or RS232. Output port: RS485. External port: RS485 or RS232. External port is isolated		Protocol repeater	160 x 135 x 18 mm	158 g	Bus board
External connections REPX-OB					
MCOX-OB **FFS00703835** Logic controls. Input port: RS485 or RS232. Output port: RS485. External port: RS485 or RS232. External port is isolated		Loop control unit	160 x 135 x 18 mm	158 g	Bus board
External connections MCOX-OB					

EN 54 offering
Linear Heat Detector Cables

Linear Heat Detector Cable HDC68 is used to monitor abnormal heat up to 68 °C alarm level. The cable can be ordered in 200 meter coils.

Linear Heat Detector Cable HDC68

Technical data	
Product number	FFS06435133: 200M coil Datasheet: D01874GB
Outer Diameter	4.5 mm
Weight	25 kg/km
Max ambient temperature	40 °C
Alarm temperature	68 ±3 °C

Linear Heat Detector Cable HDC105 is used to monitor abnormal heat up to 105 °C alarm level. The cable can be ordered in 200 meter coils.

Linear Heat Detector Cable HDC105

Technical data	
Product number	FFS06435135: 200M coil Datasheet: D01875GB
Outer Diameter	4.5 mm
Weight	25 kg/km
Max ambient temperature	60 °C
Alarm temperature	105 ±5 °C

Linear heat detector junction boxes are used when the required serial- and EOL-resistors are connected to the stiff linear heat detection cable.

Linear Heat Detector Cable junction box

Technical data	
Product number	FFS00703903
Dimensions	90 x 90 x 40 mm
Weight	60 g

Linear heat detector cable fastener T-Clip. Ordered in 200pcs packages.

Linear Heat Detector T-Clip

Technical data	
Product number	FFS06435137
Dimensions	31.98 x 14.98 x 25.90 mm
Weight	1.60 g

EN 54 offering

Detectors

Addressable Essentia Detectors

The addressable Essentia Heat Detector EDE221-I with isolator features two heat sensors located laterally to ensure accurate heat detection in all orientations. Can be configurated into 5 different detection levels.

Essentia Heat Detector EDE221-I

Technical data	
Product number	FFS06720302 Datasheet: D01766GB
Dimensions	100 x 38,5 mm (50,5 mm with Intelligent mounting base)
Weight	83 g
Operating temperature	-40°C to 70°C
IP rating	IP54
Standards	EN 54-5, EN 54-17, CPR, LPCB

The addressable Essentia Optical Smoke Detector EDE222-I with isolator uses optical sensing technology to detect smoke particles entering the chamber and aims to reduce the possibility false alarms whilst increasing the reliability of detection in case of real fire. Can be configurated into 5 different detection levels.

Essentia Optical Smoke Detector EDE222-I

Technical data	
Product number	FFS06720301 Datasheet: D01765GB
Dimensions	100 x 36 mm (48 mm with Intelligent mounting base)
Weight	83 g
Operating temperature	-40°C to 70°C
IP rating	IP44
Standards	EN 54-7, EN 54-17, CPR, LPCB

The addressable Essentia Smoke Heat Multi-Criteria Detector EDE223-I with isolator uses new optical sensing technology to detect smoke particles entering the chamber and is fitted with two thermistors for detecting heat. It can be switched to detect smoke, heat or a combination of both offering greater flexibility. Can be configurated into 5 different detection levels.

Essentia Smoke Heat Multi-criteria Detector EDE223-I

Technical data	
Product number	FFS06720303 Datasheet: D01767GB
Dimensions	100 x 38,5 mm (50,5 mm with Intelligent mounting base)
Weight	83 g
Operating temperature	-40°C to 70°C
IP rating	IP54
Standards	EN 54-5, EN 54-7, EN 54-17, CPR & LPCB

EN 54 offering
Detectors
Addressable Intellia Detectors

The addressable Intellia Optical Smoke Detector EDI-20 is suitable for slow burning or smouldering fires and should be positioned where these are most likely to occur. They can be set to a sensitivity mode best suited for the application. Photo-electric detection of light scattered in a forward direction by smoke particles. Can be configurated into 5 different detection levels.

Intellia Optical Smoke Detector EDI-20

Technical data	
Product number	FFS06720220 Datasheet: D01494GB
Dimensions	100 x 42 x 50 mm
Weight	105 g
Operating temperature	–40°C to 70°C
IP rating	IP44
Standards	EN 54-7
Mode 1 Alarm threshold %/m 1.4	minimum time to alarm (sec) 5
Mode 2 Alarm threshold %/m 1.4	minimum time to alarm (sec) 30
Mode 3 Alarm threshold %/m 2.1	minimum time to alarm (sec) 5
Mode 4 Alarm threshold %/m 2.1	minimum time to alarm (sec) 30
Mode 5 Alarm threshold %/m 2.8	minimum time to alarm (sec) 5

The addressable Intellia Multi-Sensor EDI-30 detector features heat sensor and photoelectric detection of light, scattered by smoke particles. Temperature sensitive resistance. Can be configurated into 5 different detection levels.

Intellia Multi-Sensor Detector EDI-30

Technical data	
Product number	FFS06720230 Datasheet: D01494GB
Dimensions	100 x 50 x 58 mm (height in base)
Weight	105 g
Operating temperature	–40°C to 70°C
IP rating	IP44
Standards	EN 54-7, EN 54-5
Mode 1	Very high smoke sensitivity, high temperature sensitivity
Mode 2	Equivalent to a standard optical detector, no response to temperature
Mode 3	Moderate smoke sensitivity, moderate sensitivity to heat
Mode 4	Lower than normal smoke sensitivity, high heat sensitivity
Mode 5	Pure heat detector, Class A1 58°C

The addressable Intellia Heat Detector EDI-50 is distinguishable by the low airflow resistant case and uses a single thermistor to sense the air temperature around the detector. This type of detector is particularly useful where the environment is dirty or smoky under normal conditions. Can be configurated into 5 different detection levels.

Intellia Heat Detector EDI-50

Technical data	
Product number	FFS06720250 Datasheet: D01494GB
Dimensions	100 x 42 x 50 mm (height in base)
Weight	105 g
Operating temperature	–40°C to 80°C
IP rating	IP54
Standards	EN 54-5
Mode 1 Class A1R	56°C response, high r-o-r sensitivity
Mode 2 Class A2	60°C response, medium r-o-r sensitivity
Mode 3 Class A2S	60°C response, no r-o-r sensitivity
Mode 4 Class C	93°C response, medium r-o-r sensitivity
Mode 5 Class CS	93°C response, no r-o-r sensitivity

EN 54 offering
Detectors
Addressable Intellia Detectors

Intellia CO Fire Detector EDI-60

Technical data	
Product number	FFS06720260 Datasheet: D01495GB
Dimensions	100 x 42 x 50 mm (height in base)
Weight	105 g
Operating temperature	–40°C to 70°C
IP rating	IP54 in accordance with BS EN 60529
Operating temperature	0°C to +50°C (Continuous) –20°C to +55°C (Transient)
Standards	EN 54

The addressable Intellia CO Fire Detector EDI-60 contains a long-life electro-chemical carbon monoxide sensor, which is tolerant of low levels of common vapours and household products. The sensing technology is fast, accurate and needs only very low power. Can be configurated into 5 different detection levels.

Intellia CO Heat Multisensor Detector 58000-305APO

Technical data	
Product number	FFS06720262 Datasheet: D01705GB
Dimensions	100 x 54 x 60 mm (height in base)
Weight	105 g; detector in base 160g
Operating temperature	0°C to +50°C (Continuous) –20°C to +55°C (Transient)
IP rating	IP43
Standards	EN 54

The addressable Intellia CO Heat Multi-criteria Detector contains an electro-chemical carbon monoxide sensor and a heat sensor. Combination of these sensors makes the CO Heat Multi-criteria suitable for early warning applications. Can be configurated into 5 different detection levels.

Intellia UV Flame Detector 55000-022APO

Technical data	
Product number	FFS06725283 Datasheet: D01644GB
Dimensions	100 x 40 mm (Detector only) 100 x 48 mm (Detector + base)
Weight	Detector 150 g and base 210 g
Operating temperature	–40°C to +70°C (no condensing or icing)
IP rating	IP66
Standards	Class 1 or 3, EN 54-10

The addressable Intellia base mounted Flame Detectors are designed to protect areas where open fires may be expected. The detector has a single UV sensor with a narrow spectral response in order to discriminate between flames and most spurious sources of radiation.
Responds to stationary flames with no flicker. Sensitive to UV radiation emitted by flames during combustion. Compact flame detector which can fit into Intellia bases.

EN 54 offering
Detectors
Addressable Intellia Detectors

The addressable Intellia base mounted Flame Detectors are designed to protect areas where open fires may be expected. The detector has a UV and dual IR sensors responding to different wavelengths in order to discriminate between flames and spurious cources of radiation. Responds to stationary flames with no flicker. Sensitive to UV and low-frequency flickering IR radiation emitted by flames during combustion. Compact flame detector which can fit into Intellia bases.

• False alarms due to electrical discharges from lightning or arc welding and flickering sunlight are minimised

Intellia UV Flame Detector IR2 55000-023APO

Technical data	
Product number	FFS06725284 Datasheet: D01644GB
Dimensions	100 x 40 mm (Detector only) 100 x 48 mm (Detector + base)
Weight	Detector 150 g and base 210 g
Operating temperature	–40°C to +70°C (no condensing or icing)
IP rating	IP66
Configuration	Class 1 or 3, EN 54-10
Standards	EN 54

The addressable Intellia flame detector IR3 has three IR sensors that respond to different wavelengths in order to discriminate between flames and spurious sources of radiation.

• Responds to stationary flames with no flicker
• Sensitive to low-frequency flickering IR radiation emitted by flames during combustion
• Compact flame detector which can fit into Intellia bases
• False alarms due to factors such as flickering sunlight are avoided by a combination of filters and signal processing techniques

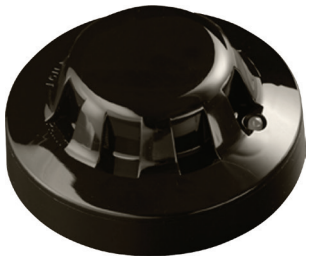
Intellia Flame Detector IR3 55000-024APO

Technical data	
Product number	FFS06725285 Datasheet: D01644GB
Dimensions	100 x 40 mm (Detector only) 100 x 48 mm (Detector and base)
Weight	Detector 150 g and base 210 g
Operating temperature	–40°C to +70°C (no condensing or icing)
IP rating	IP66
Standards	Class 1 or 3, EN 54-10

EN 54 offering

Detectors

Addressable Optical Smoke Detectors



The addressable smoke detector's black colour makes it suitable for applications in bars, restaurants and movie teathers.

Black Optical Smoke Detector 55000-660APO

Technical data	
Product number	FFS06725221 Datasheet:
Dimensions	50 x 42 x 100 mm
Weight	105g
Operating temperature	-20 to 60°C
IP rating	IP23D
Standards	EN 54-7, CPR, CSIRO LPCB

Conventional Detectors

The conventional Optical Smoke Detector EDC-20 operates on the well-established light scatter principle. The sensing technology used is radically different from previous conventional optical detectors and significantly reduces false alarms.

Conventia Optical Smoke Detector EDC-20

Technical data	
Product number	FFS06724620 Datasheet: D01516GB
Dimensions	97 x 31 mm / 100 x 46 mm in base
Weight	75 g
Operating temperature	–40°C to 70°C
IP rating	IP23D
Standards and approvals	VdS, SBSC, LPCB, FG CPR, BOSEC

The conventional EDC-30 multi-criteria detectors are recognized as good detectors for general use but are additionally more sensitive to fast burning, flaming fires–including liquid fires–than optical detectors.

Conventia Multi-criteria Detector EDC-30

Technical data	
Product number	FFS06724621 Datasheet: D01516GB
Dimensions	97 x 42 mm / 100 x 57 mm in base
Weight	80 g
Operating temperature	–40°C to +70°C
IP rating	IP23D
Standards and approvals	VdS, SBSC, LPCB, FG CPR, BOSEC

EN 54 offering
Conventional Detectors

The conventional pre-set fixed Heat Detector monitors temperature by using a single thermistor which provides a voltage output proportionally to the external air temperature. All heat detectors in the range are tested as static or rate-of-rise detectors and are classified as A1R, A1S and A2S.

Conventia Heat Detector EDC-50/A1S

Technical data	
Product number	FFS06724651 Datasheet: D01517GB
Dimensions	97 x 36mm / 100 x 51 mm in base
Weight	70 g
Operating temperature	–40 °C to +70°C (no condensation or icing))
Application temperature	typ: 25 °C, max: 50°C
Statistic response temperature	min:54°C, typ: 57°C, max: 65°C
IP rating	IP23D
Standards	EN 54-5:2000

The conventional pre-set fixed Heat Detector monitors temperature by using a single thermistor which provides a voltage output proportional to the external air temperature. All heat detectors in the range are tested as static or rate-of-rise detectors and are classified as A1R, A1S and A2S.

Conventia Heat Detector EDC-50/A2S

Technical data	
Product number	FFS06724652 Datasheet: D01517GB
Dimensions	97 x 36mm / 100 x 51 mm in base
Weight	70 g
Operating temperature	–40 °C to +70°C (no condensation or icing))
Application temperature	typ: 25 °C, max: 50°C
Statistic response temperature	min:54°C, typ: 61°C, max: 70°C
IP rating	IP23D
Standards	EN 54-5:2000

The conventional Heat Detector EDC-50/A1R is a rate-of-rise detector which microprocessor uses algorithims to measure temperature increase quicker than statistic detectors. Good in sites without high temperature peaks.

Conventia Heat Detector EDC-50/A1R

Technical data	
Product number	FFS06724650 Datasheet: D01517GB
Dimensions	97 x 36mm / 100 x 51 mm in base
Weight	70 g
Operating temperature	–40 °C to +70°C (no condensation or icing))
Application temperature	typ: 25 °C, max: 50°C
Statistic response temperature	min:54°C, typ: 57°C, max: 65°C
IP rating	IP23D
Standards	EN 54-5:2000

EN 54 offering

Addressable Wireless Products

Wireless XPA System Products

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If wiring is a challenge in the building then XPA wireless products are your solution.

XPA is a system in which individual detectors and other wireless devices communicate with the FX ALC loop by radio signals. An interface is connected to the ALC loop in the same way as any addressable interface. Every wireless XPA device is assigned to address and this address is recognised by the Esmi Sense FDP panel.

Interface: FFS06726036
Survey Kit: FFS06726037

Note! Before installing make a site survey with Wireless Diversity Survey Kit to ensure that wireless devices are compatible in the premises .

Product Datasheet: D01621GB	Product code
1. Wireless Input/Output Unit Single Channel XPA-IN-14011-APO	FFS06726024
2. Wireless Input/Output Unit Dual Channel XPA-IN-14012-APO	FFS06726025
3. Smoke Detector OPT + Base Wireless XPA-CB-12034-APO	FFS06726002
4. Heat Detector A1R + Base Wireless XPA-CB-11170-APO	FFS06726004
5. Heat Detector CS + Base Wireless XPA-CB-11171-APO	FFS06726005
6. Sounder Red + Base Wireless XPA-CB-14001-APO	FFS06726007
7. Sounder Beacon Red + Base Wireless XPA-CB-14003-APO	FFS06726009
8. Manual Call Point Red Wireless XPA-MC-14006-APO	FFS06726006

Main communication features	Data
Communication Frequency	868 MHz
Max. number of interfaces per ALC loop	5
Max. number of wireless devices per interface	31
Addressing of devices	EXPERT card
Monitoring	Self monitoring
Max. distance between interface and wireless device. Wall structures shortens distance remarkably.	150 m

Main communication features	Data
Operating Voltage	2,8...5 VDC
Operating temperature	Call point and Units -10 to 55°C
Dimensions	Heat Det: 80 x 105mm
Battery type: Detectors and Call Point	6xAA, 1,5 V Alkaline (MN1500, LR6)
Battery type: Sounder and Sounder Beacon	3xAA, 1,5 V Alkaline (MN1500, LR6) 3xC, 1,5 V Alkaline (MN1400, LR14)
Volume	14001: 93-106db(A) 14003: 92-106db(A)
Approvals	Heat detectors:EN 54-5 IO Units and sounders: EN 54 part 25 MCP: EN 54-11

Note! When replacing batteries, allow the device to power down for a period of two minutes before installing replacements.

EN 54 offering

Addressable Wireless Products

Wireless XPA System Products

Wireless Sounder/Optical Detector XPA-CB-14016-APO

Technical data	
Product number	FFS06726028 Datasheet:
Standards	EN 54-25 CPD and CE

The addressable Wireless Sounder/Optical Detector XPA-CB-14016-APO Sounder and Detector are designed to provide one point detection and notification. Two addresses required.

Wireless Sounder/Heat A1R Detector XPA-CB-14017-APO

Technical data	
Product number	FFS06726029 Datasheet:
Standards	EN 54-25 CPD and CE

The addressable Wireless Sounder/Heat A1R Detector XPA-CB-14017-APO Combined Sounder and Detector is wireless and designed to provide one point detection and notification. Two addresses required.

Wireless Sounder/Visual/ Optical Detector XPA-CB-14020-APO

Technical data	
Product number	FFS06726032 Datasheet:
Standards	EN 54-25 CPD and CE

The addressable Wireless Sounder/Visual/ Optical Detector XPA-CB-14020-APO is designed to be used with Intellia detectors and manual call points. Two addresses required.

EN 54 offering

Addressable Wireless Products

Wireless XPA System Products

Wireless Sounder/Visual/Heat A1R Detector XPA-CB-14021-APO

Technical data	
Product number	FFS06726033 Datasheet:
Standards	EN 54-25 CPD and CE

The addressable Wireless Sounder/Visual/ Heat A1R Detector XPA-CB-14021-APO is designed to be used with Intellia detectors and manual call points. Two addresses required.

Wireless Loop Interface Unit XPA-IN-14050-APO

Technical data	
Product number	FFS06726036 Datasheet:
Standards	EN 54-25 CPD and CE

The addressable Wireless Loop Interface Unit XPA-IN-14050-APO can monitor and report each device's status to Esmi Sense FDP Fire Alarm Panel. The interface is required whenever wireless detectors are used. Max 5 per loop and max 31 wireless units per interface

Addressable Bases

Essentia Intelligent Mounting Base EBE200-N

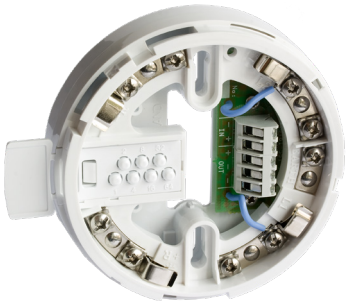
Technical data	
Product number	FFS06720300 Datasheet: D01769GB
Dimensions	100 x 20 mm
Weight	63g
Address range	1-254
Standards	CPR, LPCB

The Addressable Essentia intelligent mounting base EBE200-N has wide interior diameter for ease of cables and terminals. Isolated and non-isolated devices are supported. Mounting base is keyed to accept only addressable devices. The detector can be locked to the base. It´s backward compatible for Intellia detector ranges

EN 54 offering

Bases

Addressable bases



Intellia 20D Isolating Base EBI-11

Technical data	
Product number	FFS06720011 Datasheet:
Dimensions	100 x 24 mm
Weight	100 g
Operating temperature	–20° C to +60° C
Approvals	CPR, FG, LPCB, VdS

The Addressable Intellia 20D Isolating Base EBI-11 detects short-circuit faults on spurs and loops. The base is for indoor use only, polarity sensitive, loop-powered and accepts the XPERT card to set the address of associated device.

Intellia Deep Base EBI-12

Technical data	
Product number	FFS06720012 Datasheet: D01496GB
Dimensions	100 x 23 mm
Weight	100 g
Address range	1-126
IP rating	Indoor use only
Operating temperature	–20° C to +60° C

The addressable Intelligent Intellia Deep Base EBI-12 is a mounting base with an increased depth for Intellia products, which allows for cables to be inserted into the side of the product. Suitable detectors: EDI-20, EDI-30, EDI-50 and EDI-60. When installed to new Essentia detectors, isolator not functioning.

Intellia Heater Base EBI-15

Technical data	
Product number	FFS06720015 Datasheet: D01569GB
Dimensions	100,4 x 23,5 mm
Weight	82 g
Address range	1-126
IP rating	IP 44

The addressable EBI-15 Intellia Heater Base is designed to be used where environmental conditions could result in icing or condensation. It is recommended that the heater base is used in conjunction with either a Waterproof Base Cover, or a Deckhead Mounting Box to minimise moisture ingress. Needs seperate 24V power, thermostate and wiring. Not loop powered device.

EN 54 offering

Bases

Addressable bases

Intellia Low Relay Base EBI-20

Technical data	
Product number	FFS06720020 Datasheet: D01496GB
Dimensions	100 x 24 mm
Weight	100 g
Address range	1-126
Contact rating at 30 VAC or VDC	1 A
IP rating	Indoor use only
Operating temperature	–20° C to +60° C

The addressable Intellia Low Power Relay Base EBI-20, which is a development of the standard base, incorporates a relay to control field equipment.

Detector Base Black 45681-361APO

Technical data	
Product number	FFS06720021 Datasheet:
Dimensions	20 x 100 mm

The addressable Detector Base Black 45681-361APO Mounting Base is a low insertion force base with stainless steel contacts for the detector terminals. Ideal for Black Optical Smoke Detector 55000-660APO.

Conventional Bases

Deep Mounting Base EBC-11

Technical data	
Product number	FFS06724011 Datasheet: D01519GB
Dimensions	100 x 24 mm
Weight	65 g
Operating temperature	-40°C - 70 °C
Approvals	EN54–7: 2000 + A1: 2002 optical smoke detector EN 54–7: 2000 + A1: 2002 & CEA 4021: 2003-07 multisensor smoke detector EN 54–5: 2000 + A1: 2002 heat detector

The conventional Deep mounting base EBC-11 is for EBC-series conventional detectors. It has been designed to make installation fast and simple. The E-Z fit fixing holes are shaped to allow a simple three-step mounting procedure: Fit two screws to the mounting box or surface, place the base over the screws and slide home and tighten the screws.

EN 54 offering

Manual Call Points

Addressable Manual Call Points

The addressable Essentia intelligent manual call point ECE221-I has a short circuit isolator suitable for semi flush or surface mounting. There is a DIL switch for address setting.

Essentia Manual Call Point ECE221-I

Technical data	
Product number	FFS06720318 Datasheet: D01777GB
Dimensions	90 x 90 x 63 mm
Weight	180 g
Operating temperature	–40°C to 70°C
IP rating	IP44
Standards	EN 54-11 & EN 54-17, CPR and LPCB

The addressable waterproof version EPP-22A is intended for outdoor applications or those where water and dirt are problem. Device is surface mounted and has a short circuit isolator.

Waterproof Manual Call Point EPP-22A

Technical data	
Product number	FFS06723701 Datasheet: D01744GB
Dimensions	110 x 110 x 74 mm
Weight	325 g
Operating temperature	–40°C to 70°C
IP rating	IP67
Standards	EN 54-11:2001 EN 54-17:2005

The addressable Esmi Manual Call Point ECF221I6 is intended for indoor applications and has a built in short circuit isolator. The product contains a back box for surface mounting. The component parts of the call point are moulded in a robust fire retardant polycarbonate.

Esmi Manual Call Point ECF221I6

Technical data	
Product number	FFS06723706 Datasheet: D01753GB
Dimensions	90 x 90 x 63 mm
Weight	180 g
Operating temperature	-40 °C ... +70 °C
IP rating	IP44
Standards	EN 54-11:2001 EN 54-17:2005

EN 54 offering

Manual Call Points

Addressable Manual Call Points

The addressable Esmi Waterproof Manual Call Point interrupts the polling cycle for a fast response, when activated. The highly visible alarm indicator can be seen from up to 10 metres away. Without isolator and for outdoor use.

Esmi Waterproof Manual Call Point 58200-950APO

Technical data	
Product number	FFS06723708 Datasheet:
Dimensions	114 x 114 x 74 mm
Weight	325 g
Operating temperature	-30 to 70°C
IP rating	IP67
Standards	EN 54-11, SBSC, CPR, FG VNIIPO

Conventional Manual Call Point

The MCP1A-RED-470 Conventional Manual Call Points comply with EN 54-11 and are for in indoor use.

Conventional manual call point MCP1A-RED-470

Technical data	
Product number	FFS06425320EN Datasheet:
Dimensions	89 x 93 x 60 mm
Weight	180 g
Operating temperature	-10 to 55°C
IP rating	IP24D
Standards	EN 54-11

Surface mounted call point is installed into a separate surface mounting box (SR1T-2G).

Surface Mounting Box CA1000W SR1T2G

Technical data	
Product number	FFS06424310 Datasheet:
Dimensions	88 x 88 x 32 mm
Weight	90 g
IP rating	IP24D

EN 54 offering
Manual Call Points Accessories

The Base Mounted Flame Detector Bracket 29600-458 includes a deckhead and bracket Mounting Box. Compatible with Base Mounted Flame Detectors. Additionally a base for flame detector is needed. Internal mounting base pictured sold separately.

Base Mounted Flame Detector Bracket 29600-458

Technical data	
Product number	FFS06725286 Datasheet:
Weight	60 g
Approvals	VNIIPO

The Flameproof IR3 Flame Detector 55000-021APO is designed to protect open flaming areas. Flickering infra-red radiation is emitted by flames during combustion, due to sensitivity to low frequency.

Flameproof IR3 Flame Detector 55000-021APO

Technical data	
Product number	FFS06725287 Datasheet:
Dimensions	150 x 146 x 137 mm
Weight	2,5 kg
Operating temperature	-10 to 55°C
IP rating	IP66
Standards	BASEEFA, CPR, LPCB, IECEx

The Flame Sensor Test Unit with Case 29600-226 is a useful tool to test flame detectors without the need of real flames.

Flame Sensor Test Unit with Case 29600-226

Technical data	
Product number	FFS06725288 Datasheet:
Dimensions	260 x 128 x 60 mm
Weight	1 kg
Operating temperature	-15 °C to +50 °C
IP rating	IP54
Standards and Approvals	VNIIPO, UL1950, CSA A22.2 no.234, IEC 950, EN60950 TUV File No.S9954870, S9954887, S9954856

EN 54 offering

Auto-Aligning Beam Detector and Accessories

Addressable Auto-Aligning Beam Detector

Technical data	
Product number	FFS06725290 Datasheet: R10043GB
Operating range	8-50m, with extension kit: 100m
Operating temperature	-10 °C to 55 °C
IP rating	IP54
Standards	EN54:12

The Addressable loop-powered Auto-Aligning Beam Detector combines a transmitter and receiver in the same detector head with automatic alignment motor. Beam detector is a compact detector for detecting smoke in large open area such as warehouses, churches, theatres and sports centers. Detector head's operating range is 8m-50m which can be increased up to 100m by using Extension Kit. Built in 20T negative bi-directional short circuit isolator. Compatible with Esmi Sense FDP and FX 3NET Fire Alarm Panels. Laser assisted alignment for quick installation. Two detector heads are allowed per controller.

Technical data

Product	Dimensions	Weight
Controller with base	202*230*87mm	1000g
Detector with base	131*134*131mm	500g
Universal bracket	135*135*71mm	200g
Reflector 100g	100*100*10mm	100g

Auto-Aligning Beam Detector accessories

Product Datasheet: R1004GB	Product code
Extension Kit 100m	FFS06725275
Universal Bracket (for use with detector head and prism mounting plates)	FFS06725276
Surface Mounting Plate for prisms	FFS06725277
Prism Mounting Plate (4 prisms 50-100m)	FFS06725278
Prism Mounting Plate (1 prism 18-50m)	FFS06725279

EN 54 offering

Duct Detector Housing and Sampling tubes

Duct Detector Housing EBI-50

Technical data	
Product number	FFS06720050 Datasheet: D01501GB
Dimensions	343 x 114 x 64 mm
Weight	1,13 kg
Operating temperature	0-70 °C
IP rating	IP20

The Intellia Addressable Duct Detector Housing EBI-50 provides early detection of smoke in the air moving through heating and ventilation (HVAC) ducts in commercial and industrial premises. Its purpose is to prevent the recirculation of smoke from an area on fire to areas unaffected by the fire. Duct Detector Housing is designed to accept a Intellia intelligent detector head. (EDI-20 optical smoke detector). The smoke detector is designed to operate in ducts with a width of between 300 mm and 3000 mm. A sampling tube of 360 mm, suitable for duct width up to 540 mm, is supplied as standard. Longer sampling tubes for wider ducts may be ordered separately:

- Sampling Tube 150: 150 - 750 mm
- Sampling Tube 750: 750 - 1500 mm
- Sampling Tube 1500: 1500 - 3000 mm

Technical data

	Product	Sampling tube
Duct Detector Sampling Tube 150- 53541-170APO	FFS06720051 Datasheet: D01501GB	150 - 750 mm
Duct Detector Sampling Tube 750- 53541-171APO	FFS06720052 Datasheet: D01501GB	750 - 1500 mm
Duct Detector Sampling Tube 1500 53541-172APO	FFS06720053 Datasheet: D01501GB	1500- 3000 mm

EN 54 offering

Alarm Devices

The Intellia Sounder Base and Sounder Visual Indicator Base

The addressable Sounder Base and Sounder Visual Indicator Base are a local-area alarm devices designed for indoor use. They can be connected only to detection systems using Intellia detectors and Esmi Sense Fire control panels with appropriate software. The Intellia series of products are all compatible with the ALC-board of an Esmi Sense and FX 3NET fire control panels.

ESI-10: The Ancillary Base Sounder responds to signals from the associated detector or visual indicator. It does not have an address of its own.

ESI-20, ESI-30: The low volume range is useful where a fire alert is initially intended to warn staff only. ESI-20 is with short circuit isolator and ESI-30 is without isolator. Includes unique acoustic self-test. Individual address is set with DIL switch.

ESI-60: Combines a sounder with visual indicator and a detector base in one unit. ESI-60 has a short circuit isolator. Individual address is set with DIL switch.

Ancillary Base Sounder ESI-10

Technical data	
Product number	FFS06728010 Datasheet: D01513GB
Dimensions	115 x 38 mm
Weight	140 g
Volume range	70dBa(A) - 85dB(A)
IP rating	IP23D
Approvals	SBSC, VNIIPO, CPD, FG

Integrated Base Sounder ESI-20

Technical data	
Product number	FFS06728020 Datasheet: D01513GB
Dimensions	115 x 38 mm
Weight	140 g
Volume range	55-75dB(A) - 75-91dB(A)
IP rating	IP21D

Integrated Base Sounder ESI-30

Technical data	
Product number	FFS06728030 Datasheet: D01513GB
Dimensions	115 x 38 mm
Weight	140 g
Volume range	55-75dB(A) - 75-91dB(A)
IP rating	IP21D
Approvals	SBSC, CPD

Integrated Sounder Visual Indicator Base ESI-60

Technical data	
Product number	FFS06728060 Datasheet:D01513GB
Dimensions	115 x 38 mm
Weight	160 g
Volume range	55-75dB(A) - 75-91dB(A)
IP rating	21C
Approvals	CCMG, CPD, FG

EN 54 offering
Alarm Devices
Addressable Intellia Sounders

The addressable loop-powered Weatherproof 100dB Sounder is designed for use in open areas and can be connected to the Esmi Fire detection systems. The weatherproof version has a square back box with 3 centre points marked on the upper and lower faces.

Intellia Sounder 100dB Weatherproof ESI-40

Technical data	
Product number	FFS06728040 Datasheet: D01514GB
Sound output	100 dB(A)
Dimensions	110 x 110 x 113 mm
Weight	340 g
Operating temperature	–20 °C to +60 °C
IP rating	IP66
Approvals	CPD, FG

The addressable Loop Powered 100dB Sounder is designed for use in open areas and can be connected to the Esmi Fire detection systems. Sounder Addressable 100dB sounder has a removable back box with 6 knockouts for surface mounting. It is moulded in red ABS.

Intellia Sounder 100dB ESI-50

Technical data	
Product number	FFS06728050 Datasheet: D01514GB
Sound output	100 dB(A)
Dimensions	150 x 146 x 137 mm
Weight	215 g
Operating temperature	–20 °C to +60 °C
IP rating	IP42
Standards	FG, CPD

The addressable Loop Powered Beacon ESI-80 has been developed as a supplement to sounders in situations where there is a risk that sounders will not be heard. This occurs, for example, where there is high background noise e.g. in a workshop or a machine room or in a music room at school. The Intellia ESI-80 Loop-powered beacon is a local area beacon designed for indoor use.

Intellia Beacon ESI-80

Technical data	
Product number	FFS06728080 Datasheet: D01515GB
Dimensions	115 x 38 mm
Weight	140 g
Operating temperature	–20 °C to +60 °C
IP rating	IP23D

EN 54 offering

Alarm Devices

Other Addressable Sounders and Visual Indicator Enclosures

The addressable non-isolated weatherproof Multi-tone Open Area Sounder Beacon with visual indicator 55000-296APO is designed for use in outdoor open areas and can be connected to any Intellia system. The sounder visual indicator complements Schneider Electrics's base sounders as well as the Multi-Tone Open-Area Sounder.

Multi-tone Open Area Sounder Beacon 55000-296APO

Technical data	
Product number	FFS06728104 Datasheet:
Dimensions	110 x 110 x 113 mm
Weight	294g
Operating temperature	-20 to 70°C
IP rating	IP66
Approvals	CPD

The addressable isolated weatherproof Multi-Tone Open Area Sounder Beacon 55000-298APO Indicator is designed for use in outdoor open areas and can be connected to any Intellia system. The sounder visual indicator complements Schneider Electrics's base sounders as well as the Multi-Tone Open-Area Sounder.

Multi-Tone Open Area Sounder Beacon 55000-298APO

Technical data	
Product number	FFS06728105 Datasheet:
Dimensions	110 x 110 x 113 mm
Weight	294 g
Operating temperature	-20 to 70°C
IP rating	IP66
Standards	VdS, CPD

The Visual Indicator Enclosure 29600-318APO is made to use in high moisture environments where wash-down occurs.

Visual Indicator Enclosure 29600-318APO

Technical data	
Product number	FFS06728127 Datasheet:
Dimensions	125 x 125 x 100 mm
Operating temperature	-40 to 80°C
IP rating	IP67

EN 54 Offering

Alarm Devices

Addressable Audible and Visual Alarm Devices (VADs)

The addressable Intellia Ceiling VADs have been developed to use in situations where there is a risk that sounders will not be heard. This occurs, for example, where there is high background noise e.g. in a workshop or a machine room or in a music room at school. The Intellia VADs are compatible with the FX-ALC loop controller. ALC- and ALC2 loop controllers.

Features:

- Uses high intensity LED — More reliable than xenon beacons
- Automatic LED check when beacon activated
- Fault signal if LED check failed
- Lockable, like a detector
- Wide angle of visibility
- Synchronised with each other and with Intellia sounders (flashes once a second)
- Low current consumption

General Technical Data	
Flash rate	0.5Hz
Coverage class	C-3-8 and C-3-15
Dimensions	100 x 50 mm 100 x 48 mm (W-2.4-6)
Weight	105 g
Operating temperature	–40 °C to +70 °C
Humidity (no condensation)	0 – 95 %
Current consumption at 24 VDC - quiescent - Alarm current (LED on)	150 µA (C-3-x) 100 µA (W-2.4-6) 9.4 mA (C-3-8) 12mA (W-2.4-6) 26.6 mA (C-3-15
Vibration, impact and shock	EN54-23
IP rating	IP23D
Approvals and Standards	EN54-23, CPR & LPCB

Datasheet: D01737GB

Loop powered VADs	Product code
Ceiling VAD 15M RED 55000-740APO	FFS06728124
Ceiling VAD 8M RED 55000-742APO	FFS06728126
Wall VAD 7M RED 55000-741APO	FFS06728125
Ceiling VAD 15M White 55000-743APO	FFS06728128
Ceiling VAD 8M White 55000-745APO	FFS06728130
Wall VAD 7M WHITE 55000-744APO	FFS06728129

EN 54 Offering

Alarm Devices

Addressable Audible and Visual Alarm Devices (VADs)

The Open Category VAD Base with Isolator 45681-709APO incorporates loop-powered VAD with a standard mounting base. It is used to signal a visual fire alarm warning in enclosed areas. The VAD Base can be used either with a detector fitted or with a cap for operation as a stand-alone alarm device.

Open Category VAD Base with Isolator 45681-709APO

Technical data	
Product number	FFS06728123 Datasheet: D01738GB
Dimensions	115 x 38 mm
Weight	156 g
Operating temperature	–20 °C to +60 °C
IP rating	IP21D
Standards	EN54-23, EN54-17

EN 54 Offering

Input/Output Modules

Essentia Input/Output Modules

General technical data	
Dimensions	60 x 150 x 90 mm
Operating temperature	-40 °C to +70 °C

The Essentia switch monitor, intelligent mains switching and input/output unit with isolator provides supervision of normally open contacts connected to a single pair of cables.

The Essentia twins have two units within one enclosure and the rest have one unit with one enclosure. There is a DIL switch to set two seperate addresses, which tange is between 1-126 in all modules.

Datasheet: D01737GB

Essentia I/0 Modules	Product code	Technical details	
Essentia Switch Monitor EME210-I	FFS06720311 D01770GB	Weight	239 g
		Standards	EN 54-17 & EN 54-18, CPR and LPCB
Essentia Input/Output Unit EME212-I	FFS06720312 D01771GB	Weight	244 g
		Standards	EN 54-17 & EN 54-18, CPR and LPCB
Essentia Mains Switching Input/Output EME215-I	FFS06720315 D01774GB	Weight	301 g
		Standards	EN 54-17 & EN 54-18, CPR and LPCB
Essentia Twin Input/Output Unit EME216-I	FFS06720316 D01775GB	Weight	281g
		Standards	EN 54-17 & EN 54-18, CPR and LPCB
Essentia Twin Switch Monitor EME211-I	FFS06720317 D01776GB	Weight	273 g
		Standards	EN 54-17 & EN 54-18, CPR and LPCB

EN 54 Offering

Input/Output Modules

Essentia Input/Output Modules

Essentia DIN-Rail Input/Output Unit EME213-I

Technical data	
Product number	FFS06720313 Datasheet: D01772GB
Dimensions	33 x 102 x 33 mm
Weight	49 g
Power-up surge current	900µA
Operating temperature	-40 °C to +70 °C
Relay output contact rating	1A at 30V dc or ac
Standards	EN 54-17 & EN 54-18, CPR and LPCB

The Essentia intelligent DIN-rail input/output unit with isolator provides supervision of normally open contacts connected to a single pair of cables. Output has a changeover relay. There is a DIL switch for address setting. Address range is 1-126.

Essentia DIN-Rail Switch Monitor EME214-I

Technical data	
Product number	FFS06720314 Datasheet: D01773GB
Dimensions	33 x 102 x 33 mm
Weight	46 g
Operating temperature	-40 °C to +70 °C
Power-up surge current	900µA
Standards	EN 54-17 & EN 54-18, CPR and LPCB

The Essentia intelligent DIN-rail switch monitor EME214-I with isolator provides supervision of normally open contacts connected to a single pair of cables. It has selectable status reporting delay making it suitable for monitoring flow switches. There is a DIL switch for address setting. Address range is 1-126.

EN 54 Offering

Input/Output Modules

Essentia Input/Output Modules

General technical data	
Dimensions	150 x 90 x 48 mm
Operating temperature	–20 °C to +70 °C
Weight	240 g
IP rating	IP54

Intellia Input/Output Modules and Accessories

Data	Intellia I/0 Modules	Technical details
FFS06727341 D01505GB	Conventional zone-module EMI-310/CZ	The loop powered EMI-310/CZ Conventional Zone-Module with Isolator powers and controls the operation of a zone of conventional detectors. The Intellia series of products are all compatible with the ALC-board of an Esmi Sense Fire panel. Complies with EMC Directive 89/336/EEC. Weight. 230 g.
FFS06727351 D01506GB	Sounder control module EMI-301/S	The Sounder control module EMI-301/S with Isolator is designed to control a zone of sounders powered by an external DC supply. Sounder Control Units at different addresses may be controlled individually and have a facility for synchronizing the outputs, when being pulsed. Complies with EN54-17:2005 and EN54-18:2005. Maximum sounder circuit current: 1 A at 30V DC (inductive or resistive). Requires a seperate 24Vdc input, eg. from panel.

EN 54 Offering

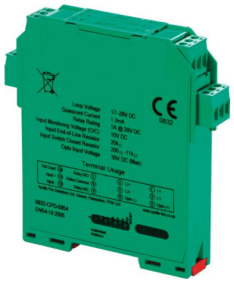
Input/Output Modules

Essentia Input/Output Modules

Mini Switch Monitor is designed to be fitted onto a standard 35 mm DIN-rail. It has one monitored switch contact input. Built-in isolator and LED's to show the status of the unit.

Mini Switch Monitor 55000-760APO

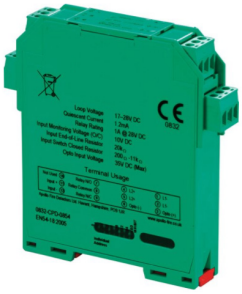
Technical data	
Product number	FFS06727372 Datasheet:
Dimensions	20 x 39 x 39 mm
Weight	30 g
Operating temperature	-20 to +60°C
Standards and Approvals	FG, CCMG, CPR, LPCB, VdS VNIIPO, EN 54-17, EN 54-18



The EMI-400 DIN-Rail Module provides, in one housing, two independent isolators which sense and isolate short-circuits on Esmi fire detection loops. Indoor use only.

Din-Rail Dual Isolator Module EMI-400

Technical data	
Product number	FFS06727400 Datasheet: D01508GB
Dimensions	110 x 107 x 20 mm
Weight	90 g
Operating temperature	-20 to +60°C
IP rating	IP20
Standards	EMC Directive 2004/108/EC, EN54-17:2005



The EMI-410/CZ Conventional Zone-Module with Isolator powers and controls the operation of a zone in conventional detectors. The Intellia series of products are all compatible with the ALC-board of an Esmi Sense FDP fire panel.

DIN-Rail Conventional Zone Module EMI-410/CZ

Technical data	
Product number	FFS06727441 Datasheet: D01511GB
Dimensions	110 x 107 x 20 mm
Operating temperature	–20 °C to +70 °C
IP rating	IP20
Standards	EN54-18:2005 and EN54-17:2005, EMC Directive 2004/108/EC

EN 54 Offering

Intrinsically Safe Fire Detectors and Manual Call Points

Addressable Detectors and Manual Call Points

The addressable Optical IS incorporates a pulsing LED located in labyrinth within the house of the detector. The signal to the panel increases and light scatters to photo/ diode when smoke enters the labyrinth. This creates a signal to Esmi Sense FDP panel.

Smoke Detector Optical IS 55000-640APO

Technical data	
Product number	FFS06725227 Datasheet: D01522GB
Dimensions	100 x 42 x 50 mm
Weight	105 g
Operating temperature	–20 °C to +40 °C (T5) –20 °C to +60 °C (T4)
IP rating	IP43
Standards	BASEEFA, BS EN 60079-0:2004, BS EN 50284:1999, BS EN 50020:2002 and BS EN 60079- 26:2004. EEx ia IIC T5.

The addressable Intellia IS heat detector is distinguishable from Intellia Intrinsically Safe smoke detectors by its low air-flow resistance case which allows good contact between the sensing thermistor and the surrounding air.

Heat Detector IS A2S 55000-440APO

Technical data	
Product number	FFS06725257 Datasheet: D01522GB
Dimensions	100 x 42 x 50 mm
Weight	105 g
Operating temperature	–20 °C to +40 °C (T5) –20 °C to +60 °C (T4)
IP rating	IP43
Approvals	BASEEFA, BS EN 60079-0:2004, BS EN 50284:1999, BS EN 50020:2002 and BS EN 60079- 26:2004. EEx ia IIC T5.

When the Addressable Manual Call Point IS is activated, the Intrinsically Safe Call Point not only interrupts the polling cycle to indicate to the control panel that it has been operated, but also reports its address. Thus an alarm and its location can be reported in less than 0,2 seconds. The standard call point is based on the waterproof model and is a red, break-glass call point with a protective lift-up flap.

Manual Call Point IS 55100-940APO

Technical data	
Product number	FFS06723737 Datasheet: D01522GB
Dimensions	97,5 x 93 x 71 mm
Weight	240 g
Operating temperature	–20 °C to +40 °C (T5) –20 °C to +60 °C (T4)
IP rating	IP67
Standards	ABS, BASEEFA, BRZ, CCCf CCS, CPD, DNV.GL PESO (CCoE), IECEx, NANIO

EN 54 Offering

Intrinsically Safe Fire Detectors and Manual Call Points

Conventional Manual Call Points

The Conventional Esmi Manual Call Point IS ECC201N9 29600-508 is approved for 22 hazardous areas and Zone 1, 2, 21. Furthermore, it is approved for the control of gas and fire alarm systems. Esmi Conventional Manual Call Point includes a break-glass, which operates with a flap. The device is explosion proof.

Esmi Manual Call Point IS ECC201N9 29600-508

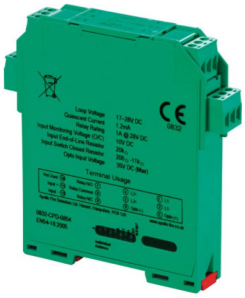
Technical data	
Product number	FFS06723707 Datasheet:
Dimensions	95 x 76 mm
Weight	800 g
Operating temperature	-40 °C ... +55 °C
IP rating	IP66
Approvals	ATEX, IECEx, EN 54-11

Intrinsically Safe Base and Isolators

The Mounting Base IS 45681-215APO has been designed to accept only Intrinsically safe products. This ensures that standard detectors cannot inadvertently be fitted into an intrinsically safe system.

Mounting Base IS 45681-215APO

Technical data	
Product number	FFS06725207 Datasheet: D01522GB
Standards and Approvals	ABS, BOSEC, KRS, PESO (CCoE) NANIO, DNV.GL, RINA

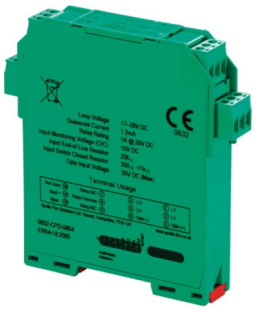


The Protocol translator is a single channel loop-powered device which draws a low quiescent current and is therefore transparent to both the loop driver and the lintrinsically Safe detectors. Translator is used in safe area no certification is necessary.

Protocol Translator Single Channel 55000-855APO

Technical data	
Product number	FFS06725201 Datasheet: D01522GB
Dimensions	92,5 x 110 x 20 mm
Weight	Approx. 100 g.
Operating temperature	–20 °C to +60 °C
Approvals	ABS, ESC, CPD, KRS, LPCB LR, DNV.GL

EN 54 Offering
Intrinsically Safe Base and Isolators



Galvanic Isolator 29600-098APO

Technical data	
Product number	FFS06725203 Datasheet: D01522GB
Dimensions	92,5 x 110 x 20 mm
Weight	90 g
Operating temperature	–20 °C to +60 °C
IP rating	IP20
Standards	BASEEFA Certificate No BAS00ATEX7087

EN 54 Offering
Installation Accessories

Ceiling Plate for Sounder 45681-311APO

Technical data	
Product number	FFS06728093 Datasheet:

Ceiling plate enables loop-powered sounder base to be fitted with surface-mounted cabling. Compatible with Intellia and Essentia range.

Deckhead Mounting Box 45681-217

Technical data	
Product number	FFS06720066 Datasheet:

The Deckhead Mounting Box gives extra protection to devices to be fitted in areas where there is a possibility of condensation or moisture ingressing through the rear of the base. Compatible with Intellia and Essentia range.

Accessory Kit for Deckhead Mounting Box 45681-218

Technical data	
Product number	FFS06720067 Datasheet:

Accessory Kit for Deckhead Mounting box 45681-217. Compatible with Essentia and Intellia ranges.

Essentia XPERT8 Address Card

Technical data	
Product number	FFS06720331 Datasheet:

Essentia XPERT8 address cards are compatible with Mounting Base EBE200-N (FFS06720300)

EN 54 Offering
Installation Accessories

Pre-Addressed Card EAC-3 and Single Address Card EAC-4

Technical data	
Product number	EAC-3:FFS06720018 EAC-4:FFS06720019 Datasheet: D01524GB

Intellia address cards are supplied with all Intellia bases. Address range 1-126.

MiniDisc Remote Indicator ERI-10

Technical data	
Product number	FFS06720601 Datasheet:
Approvals	CNBOP

The MiniDisc Remote Indicator ERI-10 is a red LED indicator with compact and light-weight configuration.

Red Cap For Integrated sounder beacon base 45681-293APO

Technical data	
Product number	FFS06728091 Datasheet:
Approvals	VNIIPO

White Cap For Integrated sounder beacon base 45681-292APO

Technical data	
Product number	FFS06728092 Datasheet:
Approvals	VNIIPO

EN 54 Offering
Installation Accessories

Conduit Box 45681-204APO

Technical data	
Product number	FFS06720060 Datasheet:
Approvals	VNIIPO, DNV.GL

The Conduit Box 45681-204APO is used in surface mounting for Intellia and Essentia bases. The box has knockouts to accept M20 or PG16 cable glands, mini trunking or conduit.

Waterproof Base Cover 45681-519APO

Technical data	
Product number	FFS06720064 Datasheet:

A Waterproof Base Cover 45681-519APO is designed for the all ALC Heater Bases. Compatible with Intellia and Essentia range.

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Essentia Twin Input/Output Unit EME216-I FFS06720316
Essentia Twin Switch Monitor EME211-I FFS06720317
Essentia Din-Rail Input/Output Unit EME213-I FFS06720313
Essentia Din-Rail Switch Monitor EME214-I FFS06720314
Conventional zone-module EMI-310/CZ FFS06727341
Sounder control module EMI-301/S FFS06727351
Mini Switch Monitor 55000-760APO FFS06727372
Din-Rail Dual Isolator Module EMI-400 ..... FFS06727400
DIN-Rail Conventional Zone Module EMI-410/CZ FFS06727441

Addressable Intrinsically Safe Fire Detectors and Call Points p. 45

Smoke Detector Optical IS 55000-640APO FFS06725227
Heat Detector IS A2S 55000-440APO FFS06725257
Manual Call Point IS 55100-940APO FFS06723737

Conventional Intrinsically Safe Manual Call Point p. 46

Esmi Manual Call Point IS ECC201N9 29600-508 ..... FFS06723707

Intrinsically Safe base and isolators p. 46-47

Mounting Base IS 45681-215APO FFS06725207
Protocol Translator Single Channel 55000-855APO FFS06725201
Galvanic Isolator 29600-098APO FFS06725203

Installation Accessories p. 48-49

Ceiling Plate For Sounder 45681-311APO FFS06728093
Deckhead Mounting Box 45681-217 ..... FFS06720066
Accessory Kit for Deckhead Mounting Box 45681-218 ..... FFS06720067
Essentia XPERT8 address card FFS06720331
Pre-Addressed card EAC-3 ..... FFS06720018
Single Address Card EAC-4 ..... FFS06720019
MiniDisc Remote Indicator ERI-10 ..... FFS06720601
Red Cap For Integrated sounder beacon base 45681-293APO FFS06728091
White Cap For Integrated sounder beacon base 45681-292APO FFS06728092
Conduit Box 45681-204APO FFS06720060
Waterproof Base Cover 45681-519APO FFS06720064

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