

Fire alarm systems Units for Hazardous (Ex) areas



- Approved isolator and **Intrinsically Safe** detectors for conventional zone line input.

General

In hazardous (Ex) areas, **Intrinsically Safe** (IS) and approved products are required. To a zone line input is connected a Galvanic isolator, to which the intrinsically safe detectors and/or manual call points are connected.

Galvanic isolator MTL5061

The isolator is used to connect the IS detectors and manual call points to a zone line input. Up to 5 units can be used on the zone line and an end-of-line resistor is to be connected in the last unit. The isolator has two in and outputs (Channel 1 & 2) and is mounted in a waterproof box (IP66/67). Supplied with four compression glands for the cable entries, two 12K e-o-l resistors for system EBL500 and two 10K e-o-l resistors for system EBL128.

IS mounting base YBN-R/4 IS

In the base could be plugged a conventional IS smoke or heat detector.

The base has terminals for the zone line (in/out) and for an external indicator (LED).

IS smoke detector SLR-E-IS

A conventional IS photoelectric (optical) smoke detector, to be plugged in the IS mounting base.

The detector has two built-in LEDs to indicate that the detector has generated fire alarm.

IS heat detector DCD-1E-IS

A conventional IS Rate of Rise heat detector, fixed temperature 60°C (class A1), to be plugged in the IS mounting base. The detector has two built-in LEDs to indicate that the detector has generated fire alarm.

Product applications

The units are used in the systems EBL500 and EBL12 with conventional zone line inputs available.

Connections, etc. according to connection diagram for the system respectively.

Type numbers	
MTL5061	Galvanic isolator (incl. waterproof box & four compression glands) ¹ (2820)
YBN-R / 4 IS	Intrinsically safe mounting base (2812)
SLR-E-IS	Intrinsically safe photoelectric smoke detector (2810)
DCD-1E-IS	Intrinsically safe heat detector (2811)

Technical data						
		Galvanic isolator	Base	Smoke detector	Heat detector	
Voltage (V DC) allowed nominal		6-35 24	15-30 24	15-30 24	15-30 24	
Current consumpt. at nom. volt. quiescent active		<400µA 1-40mA	n/a	50 µA max. 50 mA	35 µA max. 50 mA	
Current consumpt. at nom. volt. from ext. power supply (mA)		n/a	n/a	n/a	n/a	
Ambient temperature (°C) operating storage		-20 to +60	-10 to +55 -30 to +70	-10 to +55 -30 to +70	-10 to +55 -30 to +70	
Ambient humidity (% RH)		max. 95 non cond.	max. 95 non cond. at 40°C	max. 95 non cond. at 40°C	max. 95 non cond. at 40°C	
Ingress Protection rating		IP66/67 (the box)	IP22 ²	IP22 ²	IP22 ²	
Size h (mm)		175x125x 150	Ø=100x 15	Ø=100x 46 (incl. base)	Ø=100x 46 (incl. base)	
Weight (g)		~650	50	115	95	
Construction / Colour		Polycarbonate / grey (RAL 7035)	ABS / Ivory white	ABS / Ivory white	Polycarbonate / Ivory white	
Approvals, except CE. BASEEFA		EEx ia IIC T _{amb} = 60°C	n/a	EEx ia IIC T5, T _{amb} = 50°C EN54-7	II 1 G EEx ia IIC T5, T _{amb} = 55°C EN54-5	
Zone classification ²			n/a	Zone 0, 1 or 2	Category 1, incl. lower categories	

NOTE! Regarding current consumption for active detectors: All EBL equipment have a current limitation.

¹ Two end-of-line resistors (12K) are included for the system EBL500. Two end-of-line resistors (10K) are included for system the EBL128. Each has a body surface area > 230 mm² and has to be connected in the last unit on the zone line.

² IP rating not tested. Producer's estimation: IP43.

³ Regarding zone classification: Zone 0 = Category 1, Zone 1 = Category 2 and Zone 2 = Category 3.

All technical features and data are subject to changes without notice, resulting from continuous development and improvement.

Product Leaflet	Date of issue	Revision / Date of revision
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