



PANASONIC

Panasonic 2842 intrinsically safe isolator unit

Product code 41577 · Fire alarm systems > Field devices > Ex detectors

Intrinsically safe isolator unit for connecting the 2840 and 2841 addressable IS detectors to the COM loop of a Panasonic fire alarm control panel. Installed outside the Ex area.

- Connects up to 20 IS detectors (2840/2841) to the COM loop
- IS COM line up to 500 m, no return conductor or end-of-line resistor
- IP66/67 enclosure, five cable glands included
- Approved to EN 54-18, ATEX II (1) G [Ex ia Ga] IIC
- No address or programming required



Product description

Panasonic 2842 is an intrinsically safe (IS) isolator unit through which the 2840 addressable IS smoke detectors and 2841 IS heat detectors are connected to the COM loop of the fire alarm control panel. The isolator unit is installed outside the hazardous area, and an IS COM line runs from it into the Ex area. One or more isolator units can be connected to the same COM loop, together with other EBL system loop devices.

Up to 20 IS detectors can be connected to the IS COM line. The line is a simple radial cable without a return conductor or end-of-line resistor, and it can be up to 500 m long. The COM loop is isolated from the IS COM line by an optocoupler, and the unit's 24 V supply is isolated from the IS line by a DC/DC converter that limits the power fed into the Ex area. The nominal voltage of the IS COM line is 16 V DC. The isolator unit requires no address or programming.

Installation

The unit is wall-mounted outside the Ex area in a waterproof IP66/67 enclosure, supplied with five cable glands and four fixings. The connections are COM loop in and out, external 24 V DC supply (50 mA) in and out, and a blue IS COM terminal. A suitable IS COM cable is, for example, FKAR-PG 2 × 0.5 mm² (blue), and it must be routed separately from other cables.

Technical data

Product code	41577
Manufacturer	Panasonic
Product group	Fire alarm systems > Field devices > Ex detectors
Weight	3100 g
Dimensions	300 × 300 × 132 mm
IP rating	IP66/67

Operating temperature	-10...+55 °C
Operating voltage	24 V DC (12–30 V DC), external supply
EN 54 approval	EN 54-18
ATEX certificate	DEKRA 11ATEX0106
CPR	0786-CPR-21785
Material	Flame-retardant ABS and polycarbonate
Colour	Grey
Storage temperature	-25...+70 °C
Humidity	Max. 95% RH, non-condensing
Current consumption (quiescent)	≤ 10 mA
Current consumption (alarm)	≤ 50 mA
Capacity	Max. 20 IS detectors, IS COM line max. 500 m
ATEX zone	Safe area (not a hazardous area)
ATEX classification	II (1) G [Ex ia Ga] IIC
Mounting	Wall mounting outside the hazardous area

Documents

The manufacturer's original documents can be downloaded from the product page (QR code at the top of this sheet).

Technical datasheet: 2840–2843 intrinsically safe addressable detectors

Certificate: CPR certificate of constancy of performance, no. 2831-CPR-F2577, issue 02

Certificate: CPR certificate of constancy of performance, no. 0786-CPR-21785

Certificate: EU-type examination certificate (ATEX), no. DEKRA 11ATEX0106, issue 4

Certificate: EU declaration of conformity, no. ESSC-F00019-11

Certificate: Declaration of performance (DoP), no. 0786-CPR-21785 (ESSC-FP0019-13)

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-2842-atex-tilan-erotin-osoitteellinen/