



PANASONIC

Panasonic 2840 intrinsically safe addressable smoke detector

Product code 41575 · Fire alarm systems > Field devices > Ex detectors

Addressable, intrinsically safe (IS) optical smoke detector for hazardous areas. Connected to the COM loop of a Panasonic fire alarm control panel via the 2842 IS isolator unit.

- Addressable IS smoke detector for zones 0, 1 and 2
- ATEX II 1 G Ex ia IIC T5 Ga
- Approved to EN 54-7, VdS G223018
- Six selectable alarm algorithms
- Up to 20 detectors per 2842 IS isolator unit
- IP22, IP44 with the 2843 mounting box



Product description

Panasonic 2840 is an addressable, intrinsically safe optical smoke detector for hazardous (Ex) areas. It works like the Panasonic 4301 analogue optical smoke detector: the detector detects smoke by means of infrared light scattering. The detector is ATEX rated II 1 G Ex ia IIC T5 Ga and is suitable for zones 0, 1 and 2.

The alarm algorithm is selected in EBLWin from six options (H-15, N-15, L-15, H-35, N-35, L-35), which adapt the sensitivity (2.4–3.6% smoke density) and detection time (15 or 35 s) to the site. The default is N-15. According to the manufacturer, the L-15, H-35, N-35 and L-35 algorithms may not meet the requirements of EN 54-7. The detector's indicator lights up in a fire alarm.

Installation

The detector is mounted on the ceiling in the Ex area either on its own (IP22) or in the 2843 waterproof IS mounting box (IP44). It is connected to the IS COM line, which runs from the 2842 IS isolator unit installed in the safe area. Up to 20 IS detectors can be connected to one IS COM line, and the line can be up to 500 m long. The address (001–253) and NORMAL mode are set with the 4414/4414E address setting tool before connection. The detector is compatible with EBL512 G3, EBL128 and EBLOne control panels (version 3.3 onwards) and is configured as type 4301.

Technical data

Product code	41575
Manufacturer	Panasonic
Product group	Fire alarm systems > Field devices > Ex detectors
Colour	Grey (Munsell N8)

Weight	300 g
Dimensions	Ø 102 × 62 mm
LED	Red
Operating temperature	-10...+55 °C
EN 54 approval	EN 54-7
ATEX certificate	DEKRA 11ATEX0107 X
CPR	0786-CPR-21783
ATEX classification	II 1 G Ex ia IIC T5 Ga
Material	Flame-retardant ABS and polycarbonate
Operating voltage	16 V DC (permitted 15–17.3 V DC), IS COM line
Current consumption (quiescent)	≤ 0.3 mA
Current consumption (alarm)	≤ 1.5 mA
IP rating	IP22, IP44 with mounting box 2843
Storage temperature	-25...+70 °C
Humidity	Max. 95% RH, non-condensing
Address range	001–253
ATEX zone	0 / 1 / 2
VdS approval	G223018

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-F2748

Certificate: CPR certificate of constancy of performance, no. 0786-CPR-21783

Certificate: EU-type examination certificate (ATEX), no. DEKRA 11ATEX0107 X, issue 3

Certificate: EU declaration of conformity, no. ESSC-F00017-10

Certificate: Declaration of performance (DoP), no. ESSC-FP0017-12

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-2840-atex-savuilmaisin-osoitteellinen/