



PANASONIC

Panasonic 4401W optical smoke detector

Product code 41281 · Fire alarm systems > Field devices > Detectors

Analogue addressable optical smoke detector for Panasonic EBL fire alarm systems. AI-based fire decision, a learning function and contamination compensation reduce false alarms.

- Optical smoke detector in a low-profile housing (Ø 102 × 34 mm)
- Learning function selects the alarm algorithm that suits the room
- Contamination compensation and automatic service signal
- Supports fire door closing with a silent alarm
- Connection for an external indicator via the mounting base
- Approved to EN 54-7



Product description

Panasonic 4401W is a white analogue addressable optical smoke detector fitted in a low-profile analogue mounting base. The detector is intended for dry indoor premises and is suitable for EBL512 G3, EBL128 and EBLOne systems.

The smoke chamber contains an infrared LED and a photodiode, and smoke enters the chamber through an insect mesh and an optical labyrinth. The design improves smoke inflow and makes vapour condense on the outer surface of the housing, which reduces false alarms. The detector is supplied in NORMAL mode, in which the fire decision is made in the control panel. In Advanced mode, the fire decision is made in the detector by artificial intelligence, which adjusts sensitivity and delay according to changes in smoke, and the learning function selects a suitable algorithm for the room after about a month of monitoring. For known room types, such as kitchens, the algorithm is set manually in EBLWin. The detector compensates for contamination and gives a service signal when it needs to be replaced.

The 4401 also supports a fire door closing function, which is triggered by a silent alarm while the detector is disabled (EBL512 G3 and EBL128 V ≥ 2.4.0, and EBLOne).

Installation and compatibility

- Fitted in analogue mounting base 3312x, 4313 or base sounder 3379
- The COM loop and an external indicator are connected to the mounting base
- Locking screw included (1.5 mm hex socket); the hole is drilled
- Address 001–253 and mode are set with tool 4414 or 4414E before connection to the loop
- Advanced mode: EBL512 G3 and EBL128 V ≥ 2.0, EBLOne V ≥ 3.3

Technical data

Product code	41281
Manufacturer	Panasonic
Product group	Fire alarm systems > Field devices > Detectors
Colour	White (Munsell 10Y9/0.5)
Weight	75 g
Dimensions	Ø 102 × 34 mm
LED	2 red (alarm), 1 green (polling)
Operating temperature	-10...+50 °C
EN 54 approval	EN 54-7
CPR	0786-CPR-21175
Storage temperature	-25...+75 °C
Humidity	Max. 95% RH, non-condensing
Material	Polycarbonate blend
IP rating	IP41
Operating voltage	12–32 V DC (nominal 24 V DC)
Current consumption (quiescent)	0.3 mA (+0.025 mA with green polling LED)
Current consumption (alarm)	1.3 mA (1.8 mA with external indicator)
Address range	001–253
Short-circuit isolator	No
Compatibility	EBL512 G3, EBL128, EBLOne (Advanced V ≥ 3.3)
Mounting	In base 3312x, 4313 or 3379
Standards	EN 61000-6-3, EN 50130-4, EN IEC 63000 (RoHS)

Documents

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

Technical datasheet: 4401W optical smoke detector

Certificate: CPR certificate of constancy of performance, no. 0786-CPR-21175

Certificate: Declaration of performance (DoP), no. 0786-CPD-21175 (document ID ESSC-FP0002-11)

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-4401w-optinen-savuilmais-in-valkoinen/