



PANASONIC

Panasonic 4452W conventional optical smoke detector

Product code 41441 · Fire alarm systems > Field devices > Conventional detectors

Conventional optical smoke detector that is particularly good at detecting the large, light-coloured smoke particles of a smouldering fire. Connected to a detection zone of the fire alarm control panel via mounting base 2324.

- Conventional optical smoke detector for a detection zone
- Reliably detects the large, light-coloured smoke particles of a smouldering fire
- Intelligent alarm algorithm and contamination compensation
- Insect mesh and optical labyrinth reduce false alarms
- Approved to EN 54-7 and by VdS (G213028)



Product description

Panasonic 4452W is a white conventional optical smoke detector connected to a conventional detection zone of the fire alarm control panel. The detector is particularly good at detecting large, light-coloured smoke particles, which are produced in a smouldering fire, for example. It is intended for dry indoor premises and can be used in EBL512 G3, EBL128 and EBL512 systems.

Smoke enters the detector chamber through an insect mesh and an optical labyrinth. The design improves smoke inflow and condenses steam and mist into moisture on the chamber surfaces, which reduces false alarms. An AI-based fire decision adjusts sensitivity and delay according to changes in smoke; the alarm threshold is 4%/m and the delay is normally 9 seconds. The detector automatically compensates for contamination so that sensitivity remains constant.

Installation

The detector is fitted in conventional mounting base 2324, whose LED lights up in an alarm. The detection zone and any external indicator are connected to the base, and an end-of-line device matching the control panel and zone input is connected to the last device in the zone. The detector is pressed into the base with the markings aligned and turned clockwise. The conductor size for the base is Ø 0.65–1.6 mm (0.3–2 mm²). Operation can be tested with, for example, Solo or Testifire test equipment.

Technical data

Product code	41441
Manufacturer	Panasonic
Product group	Fire alarm systems > Field devices > Conventional detectors
Colour	White (Munsell 10Y9/0.5)

Weight	85 g
Dimensions	Ø 102 × 38 mm
LED	In base 2324
Operating temperature	-10...+50 °C
EN 54 approval	EN 54-7
VdS approval	G213028
CPR	0786-CPR-21252
Storage temperature	-25...+70 °C
Humidity	Max. 95% RH, non-condensing
Material	Modified polycarbonate
IP rating	IP41
Operating voltage	12-30 V DC (nominal 24 V DC)
Current consumption (quiescent)	0.04 mA
Current consumption (alarm)	Min. 3 mA
Alarm threshold	4%/m
Short-circuit isolator	No
Compatibility	EBL512 G3, EBL128, EBL512 (detection zone)
Mounting	In conventional base 2324
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: Panasonic 4452W conventional smoke detector

Certificate: VdS approval, no. G 213028

Certificate: EU declaration of conformity, no. ESSC-F00021-08

Certificate: Declaration of performance (DoP), no. 0786-CPR-21252 (ESSC-FP0021-10)

Certificate: CPR certificate of constancy of performance, no. 0786-CPR-21252

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-4452w-optinen-savuilm-konv-valkoinen/