



PANASONIC

Panasonic 3408 Talentum UV/IR2 flame detector

Product code 41951 · Flame and gas detectors > Flame detectors

UV/IR2 flame detector for indoor and outdoor sites where an open fire may break out. A UV sensor and two IR sensors provide excellent protection against false alarms.

- > UV sensor and two IR sensors, excellent immunity to interference
- > Does not respond to sunlight, arc welding or lightning
- > 0.1 m² n-heptane fire at 25 metres (class 1)
- > Relay outputs or 4–20 mA, selectable sensitivity and response time
- > Approved to EN 54-10, VdS G212190, SIL2
- > Internal automatic and manual test



Product description

Panasonic 3408 Talentum UV/IR2 is a flame detector for sites where an open fire may break out and where excellent immunity to interference is required, such as chemical and petrochemical plants, refineries, power plants, generator and engine rooms, LNG/LPG production and aircraft hangars. The detector detects most flames, from hydrocarbon fires producing radiation at 4.3 µm to invisible fires such as hydrogen flames, and is suitable for indoor and outdoor use.

The detector has a UV sensor (185–260 nm) and two IR sensors (1.0–2.7 µm). An alarm is generated only when both UV and IR radiation are detected simultaneously and the signal shows the low-frequency (1–15 Hz) flicker typical of a flame. This prevents false alarms caused by sunlight, arc welding and lightning. Sensitivity, response time and a latching or non-latching output are selected with settings, and the detector has an internal automatic and manual test.

Installation

The detector is connected to the fire alarm system via fire and fault relays, or to process control with a 4–20 mA signal. The operating voltage is 14–30 V DC. To meet the directional dependence requirement of EN 54-10, the viewing angle must not exceed ±30°. Accessories include the adjustable bracket 3407-7127, the stainless steel weather shield 12545 and the Talentum test lamp 1800-10.

Technical data

Product code	41951
Manufacturer	Panasonic
Product group	Flame and gas detectors > Flame detectors
Colour	Blue (RAL 240 50 35)
Dimensions	142 × 108 × 79 mm (H × W × D)

Weight	1.75 kg
Operating temperature	-10...+55 °C
IP rating	IP65
CPR	2831-CPR-F0584
EN 54 approval	EN 54-10
VdS approval	G212190
Operating voltage	14-30 V DC
Current consumption (quiescent)	3-8 mA (depending on operating mode)
Current consumption (alarm)	9-28 mA (depending on operating mode)
Outputs	Fire and fault relay (0.75 A / 48 V DC / 30 W, resistive) or 4-20 mA
Detection distance	0.1 m ² n-heptane fire 25 m (class 1), 12 m (class 3)
Field of view	90° cone
Response time	Typically 4 s
Material	Die-cast zinc alloy (ZA12)
Cable entries	2 × 20 mm
Connection	Conductor 1.0-4.0 mm ²
Storage temperature	-20...+65 °C
Humidity	Max. 95% RH, non-condensing
Wavelength range	UV 185-260 nm, IR 1.0-2.7 μm
SIL	SIL2 (C127_CT003_(2.0))
Manufacturer's code	FFE 16591-00

Documents

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

Certificate: EU declaration of conformity (EMC and RoHS)

Certificate: Declaration of performance (DoP), no. CPR-DOP-F00

Certificate: CPR certificate of constancy of performance, no. 2831-CPR-F0584

Certificate: VdS approval, no. G 212190

Product brochure: Panasonic 3408 Talentum UV/IR2 flame detector

Datasheet: Panasonic 3408 Talentum UV/IR2 flame detector

Installation guide (series): Talentum flame detectors

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-3408-liekki-ilmaisin-talentum-uv-ir2/