



PANASONIC

Panasonic 3411 Fireray One beam detector

Product code 41585 · Fire alarm systems > Field devices > Beam detectors

Reflective motorised beam detector that automatically aligns itself to the reflector. The stand-alone detector suits, for example, warehouses and other large spaces where maintaining ceiling detectors is difficult.

- Automatic alignment in about one minute
- Measuring distance 5–50 m, 120 m with the long range kit
- Motorised tracking compensates for building movement
- Contamination compensation and Light Cancellation technology
- Four selectable alarm thresholds
- EN 54-12



Product description

Panasonic 3411 is the Fireray One, a stand-alone reflective beam detector. The detector and reflector are installed on opposite sides of the space, and the detector monitors the infrared beam between them. Installation requires no special tools and can be carried out by one person: the laser is directed at the reflector, after which the detector aligns itself automatically.

The motorised Building Movement Tracking function compensates for alignment changes caused by natural building movement, and contamination compensation takes account of the gradual soiling of optical surfaces. Light Cancellation technology reduces the effect of sunlight and artificial light. The alarm threshold is selected with the detector switches: 25, 35 (default), 55 or 85%. Dynamic beam phasing allows detectors to be installed facing each other with the reflectors in the middle without crosstalk.

Installation

The measuring distance is 5–50 m with one reflector and 50–120 m with the long range kit (four reflectors). A clear space of 0.5 m must be left around the beam. The detector is connected to the fire alarm control panel via separate fire and fault relays, using a separate two-core cable (0.5–1.6 mm). The enclosure has three M20 knockouts and four drillable entries. The detector alignment range is $\pm 4.5^\circ$, and up to $\pm 70^\circ$ with adjustment bracket 1170-000.

Technical data

Product code	41585
Manufacturer	Panasonic
Product group	Fire alarm systems > Field devices > Beam detectors
Weight	0.7 kg
Dimensions	181 × 130 × 134 mm

Operating temperature	-20...+55 °C
IP rating	IP55
EN 54 approval	EN 54-12
CPR	2831-CPR-F2237
Colour	White (RAL 9016)
Material	Polycarbonate (UL94 Vo)
Operating voltage	14-30 V DC
Current consumption (quiescent)	5 mA (alignment 33 mA)
Humidity	0-93% RH, non-condensing
Beam range	5-50 m, 50-120 m with the long-range kit
Relays	Fire and fault, VFCO 0.5 A / 30 V DC

Documents

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

Certificate: CPR certificate of constancy of performance, no. 2831-CPR-F2237

Certificate: EU declaration of conformity

Certificate: Declaration of performance (DoP), no. DOP-F2237

Certificate: BOSEC certificate (Belgium), no. B-9223-FD-K 1066, version a

Product brochure: Panasonic 3411 Fireray One beam detector

Datasheet: Panasonic 3411 Fireray One beam detector

Installation guide: Panasonic 3411 Fireray One beam detector

Request a quote or ask for more information

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Up-to-date information and documents: pap.fi/en/tuote/panasonic-3411-fireray-one-linjailmaisn/