



PANASONIC

Panasonic 3414 Fireray Hub beam detector

Product code 41586 · Fire alarm systems > Field devices > Beam detectors

Reflective optical beam detection system in which up to three motorised detectors are controlled and tested from a controller mounted at ground level. For smoke detection in large spaces such as atriums, warehouses and halls.

- Up to 3 detectors per controller on a single cable
- Range 8–50 m, 120 m with the long range kit
- Automatic alignment and testing from the controller
- Compensation for building movement and contamination
- Time-stamped event log
- EN 54-12, VdS G223077



Product description

Panasonic 3414 is the Fireray Hub Reflective, a modular reflective optical beam detection system for demanding sites such as large public spaces, glass atriums in hotels and shopping centres, warehouses and aircraft hangars. The detectors are aligned, tested and maintained from a controller mounted at ground level, so the space does not need to be closed and no lifting equipment is required.

Up to three reflective detectors can be connected to one controller. The detectors align themselves using motorised, laser-assisted alignment started from the controller. Building Movement Tracking compensates for building movement, Light Cancellation technology reduces false alarms caused by sunlight and artificial light, and contamination compensation takes account of dirt on the optical surfaces. A fire test can be carried out remotely from the controller, and time-stamped events are stored in its event log (128 per detector, 600 per controller).

Installation

The range is 8–50 m, and up to 120 m with the 3404 long range kit. The detectors are connected to the controller either individually (parallel mode) or on the same cable (network mode), in which case the cable length to the furthest detector must not exceed 100 m. Each detector has its own fire and fault relay. Additional detectors are available under product code 3415, and accessories include the adjustable bracket 1170-000, an anti-condensation heater and the commissioning and maintenance kit 1150-000.

Technical data

Product code	41586
Manufacturer	Panasonic
Product group	Fire alarm systems > Field devices > Beam detectors
Weight	Detector 0.57 kg, control unit 1.05 kg

Dimensions	Detector 131 × 134 × 131 mm, control unit 170 × 274 × 73 mm
Operating temperature	−10...+55 °C
IP rating	Detector IP55, control unit IP65
EN 54 approval	EN 54-12
VdS approval	G223077
CPR	2831-CPR-F4372
Colour	White (RAL 9016) or grey (RAL 7001)
Material	Polycarbonate (UL94 V0)
Operating voltage	14–36 V DC
Current consumption (quiescent)	12.5 mA (1 detector), 15 mA (2), 17.5 mA (3)
Humidity	0–93% RH, non-condensing
Beam range	8–50 m, 50–120 m with the long-range kit
Relays	Fire and fault per detector, VFCO 1 A / 36 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-F4372

Certificate: VdS approval, no. G 223077

Certificate: Declaration of performance (DoP), no. DOP-F4372

Certificate: EU declaration of conformity

Product brochure: Panasonic 3414 Fireray Hub beam detector

Datasheet: Panasonic 3414 Fireray Hub beam detector

Installation guide: Panasonic 3414 Fireray Hub 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-3414-fireray-hub-linjailmaisn/