6030-100

Fireray Hub Reflective - Detector

General

The Fireray Hub Reflective Detector is an additional beam detector head for use the the Fireray Hub Reflective System. Connection of up to 3 Fireray Reflective Detectors can be accommodated on a single cable run to the hub, making the installation extremely easy and flexible.

Benefits

It supports modern, reflective motorised beam technology that facilitates:

• Auto-Alignment™
Using the Hub, direct the laser onto the prism and with the press of a button, it aligns itself.

• Building Movement Tracking™
Keeping the beam aligned even if the building moves, preventing unwanted alarms and faults

• Light Cancellation Technology™
Prevent nuisance alarms by compensating for sunlight and artificial light sources



Details

- Offers laser-assisted, motorised Auto-Alignment™ from the system controller, with manual alignment as an option if needed
- 2-wire interface from detector to system controller offers an installation with 60% less wiring and in 25% less time using network mode
- Compensates for natural shifts in alignment from building movement
- Compensates for gradual build-up of contamination on the optical surfaces
- Compensates for high levels of sunlight and artificial lighting
- Dynamic beam phasing allowing beam detectors to be mounted facing each other with the reflectors in the middle
- Operate in dusty or wet environments due to the high enclosure integrity of the detector

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Technical specifications

General

Compatibility	6020-100 Fireray Hub Reflective
Connectivity	2-wire & screen
Addressing method	DIP Switches

Electrical

Power supply type	Loop powered
Operating voltage	14 to 36 VDC
Cable specification	24 to 14 AWG (0.5 to 1.6 mm) (1/100" to 6/100")
No. of cable cores	2, dedicated

Detection

Detection principle	Optical infrared beam
Zone length	< 100 m from the hub
Range	8 to 50 m (to 120 m with FD-LRK)
Optical wave length	850 nm
Adjustment angle	± 4.5°
Misalignment tolerance	± 0.5°
Beam path clearance	0.5 m (1¾ ft) radius from centre line between detector and reflector
Response time	< 2 s

Physical

Physical dimensions	Detector: 131 x 134 x 131 mm (H x W x D) Reflector: 100 x 100 x 9 mm (H x W x D)
Net weight	Detector: 0.57 kg Reflector: 0.06 kg
Mounting type	Hinged mouting, Surface mount

Environmental

Vandal proof	No
Operating temperature	-10 to +55°C (+14 to +131ºF)
Storage temperature	-40 to +85°C (-40 to +185ºF)
Relative humidity	0 to 93% non condensing or icing
Environment	Indoor
IP rating	IP55

Regulatory

Compliancy	CE, REACH, RoHS 3, UKCA, WEEE
Certification	CPR
Voluntary marks	VdS
Standards	EN54-12

Compatible products

Category	Reference	Description
Detection device	5000-008	Fireray Reflective short range prism plate
Detection device	6020-100	Fireray Hub Reflective System
Detection device	FD-LRK	Long-range reflector kit for Fireray Beam Detectors (1010-000)
Mounting Accessories	FD-MB001R	Mounting bracket for FD001R beam detectors (6010-100) and 5000-007/5000-008 reflector plates
Mounting Accessories	FD-PC001R	Protective cage for Fireray reflective beam detectors (1100-000)

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