6020-100

Fireray Hub Reflective System

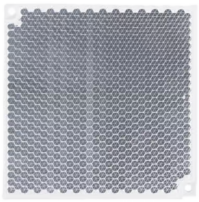
General

The Fireray Hub Reflective System is a modular beam detection system that can be configured to suit a variety of demanding applications. The 6020-100 consists of a ground level controller and one reflective detector head with reflector.

With no specialist tools or knowledge needed for installation and operation, the Fireray Hub Reflective builds on the technology offered by the Fireray One (FD001R), adding the ability to align, commission, configure, and maintain from ground level without the need for access equipment.







Benefits

The Fireray Hub Reflective enables excellent accessibility and user-configurable settings for long-term ease of maintenance and ownership due to to the intuitive, ground level controller.

Connection of up to 3 Fireray Reflective Detectors can be accommodated on a single cable run, making the installation extremely easy and flexible.

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

Applications

In large public areas where downtime for maintenance needs to be kept to a minimum, the Fireray Hub Reflective allows monitoring and testing of detectors without shutting down the area.

In glass atria in hotels and retail complexes where sunlight can cause nuisance alarms, Light Cancellation Technology™ actively cancels sunlight to prevent nuisance alarms.

Very large spaces e.g. warehouses and aviation hangars where installation and maintenance can get very time-consuming, up to 3 detectors can be connected on a single cable run, each with 120 m detection range, all controlled from a single system controller.

Amongst others, education and heritage establishments, as well as sports facilities can benefit from this technology.

Détails

- Connect and monitor up to 3 detector heads with independent fire and fault signals for each detector
- 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 hub and detector
- Event log with time and date stamps – 128 per detector, 600 per system controller offers easy diagnoses of system events
- Backlit display for easy readability

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Spécifications techniques

Général

Indication d'état	Ground level controller
Interface utilisateur	LEDs and backlit LCD display
Compatibilité	Conventional supervised systems
Connectivité	Potential free relays

Électrique

Type de bloc d’alimentation	24 VDC
Tension de fonctionnement	14 to 36 VDC
Consommation de courant	12.5 mA with 1 detector 15 mA with 2 detectors 17.5 mA with 3 detector 33 mA (alignment and LCD backlight ON)
Cable specification	24 to 14 AWG (0.5 to 1.6 mm) (1/100" to 6/100")
Nbre de fils conducteur	2, dedicated

Détection

Principe de détection	Optical infrared beam
Longueur de la zone	< 100 m to furthest detector
Gamme	8 to 50 m (to 120 m with FD-LRK)
Longueur d'onde de portée	850 nm
Adjustment angle	± 4.5°
Misalignment tolerance	± 0.5°

Sortie

Quantité des sorties	< 6 (2 per detector head)
Type de sortie et classe	Relay: 1 A at 36 VDC

Caractéristiques physiques

Dimensions physiques	Controller: 170 x 274 x 73 mm (H x W x D) Detector: 131 x 134 x 131 mm (H x W x D) Reflector: 100 x 100 x 9 mm (H x W x D)
Poids net	Controller: 1.05 kg Detector: 0.57 kg Reflector: 0.06 kg
Type de montage	Hinged mouting, Montage en surface
Entrées de câble	2 knock-out locations of 21 mm (¾") diameter for cable glands, 2 drill-out locations of up to 21 mm (¾") diameter
Matériel (boîte)	Polycarbonate - UL94V-0

Environnement

Protégé contre le vandalisme	Non
Température de fonctionnement	-10 to +55°C (+14 to +131ºF)
Température de stockage	-40 to +85°C (-40 to +185ºF)
Humidité relative	0 to 93% non condensing or icing
Environnement	Intérieur
Indice de protection	Controller: IP65 Detector: IP55

Régulateur

Conformité	CE, REACH, RoHS 3, UKCA, WEEE
Certification	CPR
Voluntary marks	VdS
Normes	EN54-12

Detection

Beam path clearance	0.5 m (1¾ ft) radius from centre line between detector and reflector
Detectors per controller	> 3
Response time	< 2 s

Physical

Colour	White RAL9016, Grey RAL7001

Produits compatibles

Catégorie	Référence	Description
Module de détection	5000-008	
Module de détection	6030-100	
Module de détection	FD-LRK	
Supports de montage	FD-MB001R	
Supports de montage	FD-PC001R	

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