

### LINEAR SMOKE DETECTION IR – BEAM SMOKE DETECTOR - (LSD-IR).

#### FIRERAY® R (NEW)



**Motorized optical beam detector (Reflection), for up to 3 Detector Heads**

The new Fireray R® is the manufacturer's latest optical beam smoke detector. Building on our long heritage of innovative products, Fireray R® is easy to install and has several proprietary features that reduce false alarms.

The Fireray R® self-compensates for environmental effects such as dust, sunlight and building movement to keep false alarms and failures to a minimum. The built-in laser and automatic alignment function make it easy to install, saving installation and commissioning costs.

The system is fully customizable with alarm thresholds (sensitivity) and alarm/failure Retard adjusted from the system controller at ground level. An easy-to-use interface unit with a fully icon-based, backlit LCD display.

#### Features

- Allows 3 detectors per controller
- Detection range: 0 to 50 m / 0 to 120 m. with long-range reflective kit
- Laser-assisted alignment method, **Fireray R®** Auto-Alignment™ Optional adjustment with manual alignment
- Alignment protocol: background check, prism search, adjusting and centering
- Building Movement Tracking™: compensates for natural changes in the alignment of building movement
- Pollution compensation: compensates for the gradual accumulation of contamination on the optical surface
- Light Cancellation Technology™: compensates for high levels of sunlight and artificial lighting
- Optical wavelength – smoke detection: 850nm infrared
- Integrated laser for alignment
- Signal output: Individual alarm relays and 100 mA fault at 36 VDC
- **Item Codes:**
- **FIRERAY R:** 1 head detector, 1 controller, 1 prism, 1 mask.
- **Fireray R single detector:** 1 Additional detector head.
- **Fireray R long-range kit:** 3 reflective prisms.

#### FIRERAY® ONE



**A standalone beam detector with all the benefits of Reflective beam detection**

With no specialist tools or knowledge needed for installation and operation, the Fireray One is a standalone beam detector that prioritises ease of installation.

Using the Fireray One, it couldn't be easier to bring the benefits of beam detection to your application:

- Auto-Aligns – just steer the laser onto the Reflector, then at the flick of a switch, it aligns itself. 8 times faster than previous detectors
- One person installation – everything can be done by one person
- One standalone product – no specialist tools required; minimal prior knowledge and training needed

#### Features

- Transmitter and receiver in the same unit.
- Detection range: 0 to 50m or 0 to 120m with the long-range reflective kit.
- Laser-assisted alignment method, Auto-Alignment™. With optional Configuration for Manual Alignment.
- Auto-Alignment™ protocol Background verification, prism search, Adjustment and Centering.
- Building Movement Tracking™ Compensates for natural changes in alignment due to building movement \*
- Contamination Compensation Compensates for gradual build-up of contamination on optical surfaces
- Light Cancellation Technology™ Compensates for high levels of sunlight and artificial lighting
- Integrated laser: Class IIIa <5mW
- Signal output Individual alarm and fault relays

#### Ordering information:

- **6010-100:** Fireray One – 50m detection range
  - **1010-000:** Reflective Long Range Kit – 120m detection range
- Additional accessories available, consult.*

#### FIRERAY® 3000



**End-to-End Beam Smoke Detector Tx/Rx**

Fireray® 3000 End-to-End Infra-red beam smoke detector has been designed using the latest optical technology, incorporating modern industrial, electronic and software techniques. This detector offers cost effective protection of large, open area spaces with high ceilings. It is also very suited to applications where access to ceiling mounted smoke detectors presents practical difficulties.

The Fireray® 3000 is ideal for applications where line of sight for the IR (infra-red) detection path is narrow and where the building structure uses reflective surfaces. It has also been designed to be aesthetically pleasing and thus can equally suit modern architectural buildings as well as heritage sites, particularly where ornate ceilings exist.

#### Features

- Range 5 to 120 metres, configurable per set of detectors
- Light cancellation technology
- Integral laser alignment in receiver
- 2-wire Interface between controller and receiver
- Single and twin detector options
- Separate fire and fault relays per detector
- Low level controller with LCD display
- Programmable sensitivity and fire/threshold
- Contamination compensation
- First-Fix design for transmitter, receiver and controller
- Multiple cable gland knockouts for ease of wiring
- Optional transmitter powering from controller
- Working optical path for detector alignment

#### Ordering information:

- **3000-101:** 1 Controller + 1 Tx/Rx set.
- **3000-015:** 1 additional Tx/Rx Set.

#### FIRERAY® 3000 ATEX



**Flameproof Optical Beam Smoke Detector Tx/Rx**

The Fireray® 3000 Exd is ideally suited for the protection of large areas, with potentially explosive atmospheres, against smoking fires. Fireray® 3000 Exd comprises an infrared transmitter and a receiver, both of which are ATEX-certified for use in Group 2 hazardous areas. There is a separate, safe area, wall-mounted remote/low level control unit to allow adjustment and testing from a convenient non-hazardous location.

The product is designed for large enclosures within oil rigs, refineries, ordnance stores and similar premises. It provides an early warning of smouldering or strongly smoke-generative fires, which may not be picked up by flame detectors installed in many hazardous areas.

#### Features

- Separate transmitter and receiver unit certified to Exd
- Allows for 2 Detectors per System Controller
- Range 10 to 80 meters, (33ft to 262ft) configurable per set of Detectors
- Integral Laser Alignment in Receiver
- 2-wire Interface between Controller and Receiver
- Separate Fire and Fault Relays per Detector
- Remote/low Level Controller with LCD display (Safe Area)
- Programmable Sensitivity and Fire/Fault delay
- Contamination Compensation for dust and building movement
- Multiple cable gland knockouts for ease of wiring
- Transmitter can be powered from Controller
- Complies with ATEX
- Light Cancellation Technology

#### Ordering information:

- **3000-115:** 1 Controller + 1 Tx / Rx set.
- **3000-026:** Additional Set 1 Tx / Rx set

