



Optical Beam Smoke Detectors



FPA-348

The Fireray 5000 is the first of a new family of motorised auto aligning infrared optical beam smoke detector products and accessories. This innovative system has been designed from the ground up to include pioneering technology that fully addresses the needs of the installer and user, both now and in the future. With its industry leading optics, the Fireray 5000 is ideally suited for the protection of large areas where the use of traditional detection technologies would prove to be too difficult and/or costly to install. The Fireray 5000 combines an infrared transmitter and receiver in the same discrete unit and operates by projecting a well defined beam to a reflective prism, which returns the beam to the receiver for analysis.

The F2000 series conventional infrared optical beam smoke detectors are ideally suited for protecting warehouses, factories, shopping malls, leisure centres, churches, museums, power stations and industrial plants. The system is comprised of a transmitter unit, which projects a modulated infrared light beam to a receiver unit. The received signal is analysed and should smoke be present for a predetermined time, a fire condition is signalled.

The Fireray EExd F2000 is ideally suited for the protection of large areas, with potentially explosive atmospheres, against smoking fires. Fireray EExd F2000 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. The detector, together with a battery backed power supply, can be connected to a zone of a conventional fire alarm control panel or interfaced to an analogue-addressable system via an addressable input module or a zone monitor module.



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The Fireray 50R and 100R series are comprised of a single unit incorporating an infra-red Transmitter and Receiver. The signal is reflected by a prism and analysed for smoke presence. Should a predetermined level be reached, a fire condition is activated. The system is designed to be mounted so that the beam will project between 0.3 and 0.6 metres below and parallel to the ceiling. Lateral detection may be up to 7.5 metres either side of the beam.



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Features

Fireray 5000

- Modular Design
- *Easifit* First Fix System
- Ground Level System Controller
- Approved by LPCB, EN54:12 and the Construction Products Directive (CPD)

Fireray 2000

- Range 10-100 metres
- 11.5-28V D.C. Operating Voltage
- Low current consumption
- Complies with BS5839 part 5 and World-Wide approvals including VdS and UL

Fireray EExd

- Separate Transmitter and Receiver Unit Certified to EExd
- Complies with BS5839 part 5; ATEX Certified
- Automatic self check drift compensation
- Remote/Low Level Control Equipment (Safe Area)



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Fireray 50/100R

- Single Compact Housing
- Area coverage 50 metre or 100 metre model available
- Robust Construction
- Conforms to BS5839 Part 5 EN54 part 12, UL and VDS

Ordering Codes & Information

Cat No	Description
FPA-347	Fireray 5000 Optical Beam Smoke Detector, 5-50m Version
FPA-348	Fireray 5000 Optical Beam Smoke Detector, 10-100m Version
FPA-349	Universal Bracket to suit Fireray 5000 Optical Beam Smoke Detector
FPA-350	Fireray 2000 Optical Beam Smoke Detector 10-100m Version
FPA-351	Fireray EExd Optical Beam Smoke Detector 10-100m Version
FPA-392	Fireray 50R Optical Beam Smoke Detector 5-50m Version
FPA-393	Fireray 100R Optical Beam Smoke Detector 10-100m Version



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