



Reflective Beam Smoke Detectors

FireRay50R

Reflective beam detector, 15 – 165ft. range

FireRay100R

Reflective beam detector, 15 – 330ft. range

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DESCRIPTION

The system comprises of a single unit incorporating an infra- red Transmitter and Receiver. The signal is reflected by a prism and analyzed 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 1 ft. and 2 ft. below and parallel to the ceiling. Lateral detection may be up to 30 ft. either side of the beam.

CONSTRUCTION

Housing: Flame Retardant ABS
Rating: IP50
Finish: Grey/Black
Weight: Approx. 1.5 lbs
Dimensions: 8 1/4" x 4 1/2" x 4 3/4"

BENEFITS

- Reduces installation costs where 6 or more conventional detectors are required in a single zone.
- Reduces service time by taking advantage of the optional ground level electronics for system check or change without disruption to the site.

APPLICATIONS

Open areas where ceiling heights exceed 25ft. (Warehouses, Hotel Atriums, Industrial Plants and School Gymnasiums). Public areas where cosmetics are of prime importance and detector heads need to be small and unobtrusive.(Shopping Malls, Libraries, Theaters and Churches)



FireRay50/100R

FEATURES

- UL Listed
- Single Compact Housing
- 165 ft or 330 ft Version Available
- 4mA VDC Operation
- Low Current Consumption
- Self Check and Automatic Drift Compensation
- Latching / Non Latching Alarm
- Reflector Targeting Mode
- Integral Alignment Aid
- Microprocessor Controlled
- Automatic Contamination Compensation
- Selectable Sensitivity
- Manufactured by Fire Fighter Enterprises



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ORDERING INFORMATION

Model No.	Description
FireRay50R	Reflective beam type smoke detector, 4-wire, 15 to 165ft. range, 10 – 30VDC
FireRay100R	Reflective beam type smoke detector, 4-wire, 15 to 330ft. range, 10 – 30VDC
0400-01	Low level test unit
0608-01	Surface back box for FireRay50R and FireRay100R

SPECIFICATIONS

Input Voltage:	12 - 24VDC	Standby Current:	4mA @ 24VDC
Temperature Range:	-22° F to 131° F (-20° C to 55° C)	Alarm Current:	14mA @ 24VDC
Range:	15 – 165ft. (FireRay50R) 15 – 330ft. (FireRay100R)	Aux. Power:	500mA @ 24VDC
Humidity:	10-93% RH non-condensing	Alarm Relay Outputs:	(1) Form C .5 Amp @ 30VDC
Weight:	1.5 lbs.	Fault Relay Outputs:	(1) Form C .5 Amp @ 30VDC
Sensitivity:	25% 35% 50%	Reset Time:	5 seconds
Material:	Flame Retardant ABS	Start-up Time:	10 seconds
Smoke Detector Spacing:	On smooth ceilings, up to 60 feet between projected beams and not more than one-half that spacing between a projected beam and a sidewall. Other spacing may be used depending on ceiling height, airflow characteristics, and response requirements. See NFPA 72	Fault Condition:	90% or more obscuration, Automatic gain control limit, Improper initial alignment
Indicators:	Red alarm LED, Green trouble LED	Zones:	500 Network Wide Software Zones per System (Output Zones Allocated to Zones 1 thru 253 only)



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NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets, which cover various technical limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Global Fire Control, Inc. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Global Fire Control, Inc. Global Fire Control, Inc. reserves the right to change specifications without notice.