



IR3 FLAME DETECTOR RFD-3000X

SPECIFICATIONS

General

Spectral Response	Triple IR Bands
Detection Range	197ft(60m) for n-Heptane fire
Field of View	Horizontal 90° Vertical 90°
Response Characteristics	Typical 5 sec
Temperature Range	Operating : -40°C to +75°C. Storage : -50°C to +80°C.
Humidity Range	0 to 95% relative humidity

Electrical

Operating Voltage	Typical DC24V (18 to 30).
Power Consumption	4.5W maximum at 30 VDC
Wiring	14 AWG(2.08 mm ²) to 24 AWG(0.205 mm ²) shielded cable recommended.
Electromagnetic Compatibility	EMC protected

Output

Relays	
Fire Alarm:	- Form A or B Selectable - normally de-energized - Latching/Non-Latching - Contacts rated 3A at 30 VDC 3A at 277VAC
Fault Alarm :	- Form A - Normally energized - Contacts rated 3A at 30 VDC 3A at 277VAC
Warning Alarm :	- Form A - Normally de-energized - Contacts rated 3A at 30 VDC 3A at 277VAC

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4-20mA	A maximum loop resistance of 400 ohms
	General Fault : 0 +0.5mA Self Test Fault : 2mA ±0.5mA Normal : 4mA ±0.5mA Initialize Fault : 8mA ±0.5mA Self Test : 12mA ±0.5mA Warning : 16mA ±0.5mA Alarm : 20mA ±0.5mA

RS-485	Proprietary communication
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Mechanical

Dimensions	W134 x H117 x D112 mm W5.3 x H4.6 x D4.3 Inch
Enclosure Material	Stainless steel 316
Shipping Weight	4.98 with bracket)
Color	Metal
Conduit Entry Size	2 x 1/2 inch NPT, M20X1.5

Approvals

Performance	FM3260
Hazardous area	Class I Division 1 Groups B,C and D Class II Division 1 Groups E,F and G Class III
Explosion proof	ATEX, IECEx, Exdb IIB+H2 T5
Water and dust tight	IP66/67, NEMA Type 4X

Detection Ranges

* at highest sensitivity setting for 1' x 1' pan fire

N-Heptane	60m	Kerosene	45m
Gasoline	60m	Ethanol	40m
Diesel fuel	45m	Methanol	35m

Accessories	Fire Simulator	TL-CF2
	Bracket	BK-02