



# IR3 FLAME DETECTOR RFD-3000X

## SPECIFICATIONS

### General

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

### Electrical

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

### Output

<b>Relays</b>	
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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### Output

<b>4-20mA</b>	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

<b>RS-485</b>	Proprietary communication
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### Mechanical

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

### Approvals

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

### Detection Ranges

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

<b>N-Heptane</b>	60m	<b>Kerosene</b>	45m
<b>Gasoline</b>	60m	<b>Ethanol</b>	40m
<b>Diesel fuel</b>	45m	<b>Methanol</b>	35m