





The Sense-WARE Triple IR3 Flame Detector is designed to give optimum performance for Zone 2 and Safe Area flame detection. Designed to detect all types of hydrocarbon fires and immune to false alarms, the Model IR3-109/1 offers a cost effective solution for Zone 2 and Safe Area industrial and commercial applications.

The Retroreflective ring around the window allows for easy testing with a Sense-Ware Test Lamp. The Pressure Compensating Element (PCE), prevents water ingress damaging the electronics.

Sense-WARE Flame Detectors offer fast performance, with a 5 year warranty making them the Best in Class.



Model IR3-109/1

Triple Infrared Flame Detector

- Three Infrared Sensors
- Corrosion proof GRP housing
- Non-Incendive for Zone 2
- Weather Resistant
- Relay & 4-20 mA Outputs
- Automatic & Manual Self Test
- 5 Year Warranty
- ATEX, IECEx &
 FM3611 Approved
- EN54-10 & FM3260
 Approved
- Suitable for Zone 2 & Safe Areas
- Low Power

Typical Applications

- ◆ Aircraft Hangars
 ◆ Atriums
 ◆ Biogas
 ◆ Car, Train Bus,
 Tram and Train Parkings
 ◆ CNG Filling
 ◆ Conveyor Belts
- Diesel Engine Rooms Electric Power Transformers
 Engine Test Cells Gas Cabinets Gasoline/Gas
 Engine Rooms Service & Charging Stations
- Hydraulics e.g. Extruders Chemical, Fuel & Solvent Storage ● Hydrocarbon Storage and Processing
 - Laboratories Loading / Unloading Terminals
- Monitoring of Machinery Chemical Storage Oil and Gas Pipe Line and Pumping Stations • Powder Coating & Paint Booths • Recycling and Waste Processing Plants • Wind Turbines

Specifications

Spectral Range 2.7 - 5.0 Microns

Maximum Range 35 Meters (115 ft) 0.09 m² (1 Sq.Ft.) Heptane pan fire

Typical Response <10 Seconds

Field of View 90° x 90°

Input Power 10-28 VDC

Current (Normal) 25 mA @ 24 VDC (40 mA peak during Self-Test)

Current (Alarm) 35 mA @ 24 VDC

Start Up Time <10 Seconds

Analogue Signal - Sink 0-20 mA

Power Fault 0 mA

Optical Fault 2 mA

Normal Operation 4 mA

Alarm 20 mA

Relays Alarm & Fault SPDT

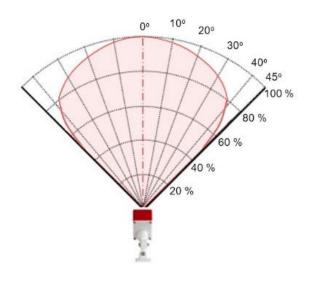
Relay Contact Rating 30 VDC / 2 A / 60 W

Latching (default) / Non Latching DIL Switch selectable

Normal Operation Green LED

Alarm Indication Red LED

Fault Indication Yellow LED



Automatic Self-Test Once per Hour

Manual Self-Test Available (see Manual)

Cable gland (pre-mounted) 1 x M20

Cable diameter 5.5-13 mm / 20-60 AWG

Housing GRP

Temperature Range -25 °C to +70 °C Hazardous Area -40 °C to +70 °C Safe Area

Humidity 0-95 % Non Condensing

Ingress Protection IP65

Pressure Compensation PCE

Weight 465 g

Dimensions 125 x 80 x 57 mm

Warranty 5 Years



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Approvals

EN54-10 Performance, Class 1

ATEX, IEC Hazardous Area II 3G Ex nA IIC T4 Gc, II 3D EX tc IIIC T71°C Dc

FM3260 Performance (see Manual)

FM3611 Hazardous Area Non-Incendive: Class I, II, III, Div 2, Groups A,B,C,D,F,G (see Manual)

Accessories

I.S. Test Lamp TC-940/1Z

Non EX Test Lamp TC-169/1

Swivel Mount SM21

Specifications may be subject to change

www.sense-ware.com

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