



SW1138 pictured with SW1131 swivel mount bracket

Sense-Ware IR3-109/1 Triple Infrared Flame Detector

SW1138
SW1163

Features

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

Applications

- Aircraft hangars
- Atriums
- Biogas
- Car, Train, Bus & Tram parkings
- CNG filling
- Conveyor belts
- Diesel engine rooms
- Electric power transformers
- Engine test tells
- 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 pipeline and pumping stations
- Powder Coating & paint booths
- Recycling & waste processing plants
- Wind turbines

Description

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.

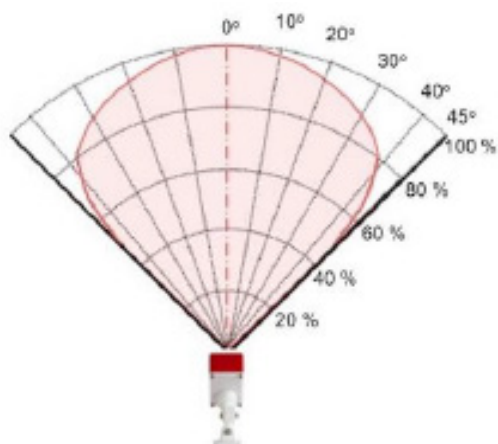
Sense-WARE Flame Detectors offer fast performance, with a 5 year warranty making them the Best in Class..

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)

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: **Hazardous area** -25 °C to +70 °C : **Safe Area** -40 °C to +70 °C
- 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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Order Codes

- **SW1138** RED IR3-109/1 Triple Infrared Flame Detector
- **SW1163** WHITE IR3-109/1 Triple Infrared Flame Detector
- **SW1131** Swivel Mount (ordered separately)

Accessories

- **SW1153** TC-169/1 Non-EX Test lamp
 - **SW1163** TC-940/1 Intrinsically Safe Test Lamp
- (each include instruction manual & carry case)