

**5**  
YEARS  
WARRANTY  
FLAME DETECTOR

# SENSE-WARE

THE FLAME DETECTOR  
COMPANY



## Model UV/IR-210/1

### UV/IR Flame Detector

The Sense-WARE UV/IR 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 hydrogen fires and immune to false alarms, the Model UV/IR-210/1 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.

- UV Sensor
- IR Sensor
- 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
- Battery Storage Rooms
- Biogas
- Car, Train Bus, Tram and Train Parkings
- Clean Rooms
- CNG Filling
- Diesel Engine Rooms
- Electric Power Transformers
- Engine Test Cells
- Fume Hoods
- Gas Cabinets
- Gasoline/Gas Engine Rooms
- Service & Charging Stations
- Heating Rooms for Chemicals
- Hydraulics e.g. Extruders
- Chemical, Fuel & Solvent Storage
- Hydrocarbon Storage and Processing
- Hydrogen Storage and Processing
- Laboratories
- Loading / Unloading Terminals
- Monitoring of Machinery
- Chemical Storage
- Hydrogen Storage
- Oil and Gas Pipe Line and Pumping Stations
- Recycling and Waste Processing Plants
- Wind Turbines

## Specifications

**Spectral Range**  
UV 185 - 260 nm  
IR 2.7  $\mu$ m

**Maximum Range**  
23 Meters (75 ft)  
0.09 m<sup>2</sup> (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  
(75 mA peak during Self-Test)

**Current (Alarm)**  
 $\pm$  40 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

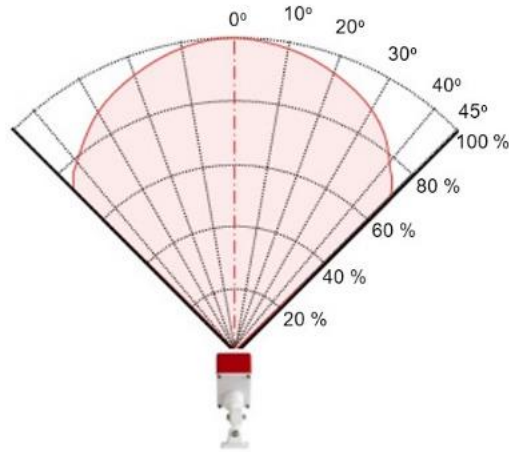
**Relay Contact Rating**  
30 VDC / 2 A / 60 W

**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 2

**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



**Your specialist safety partner**

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