

**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  $\mu\text{m}$

### 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)

± 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

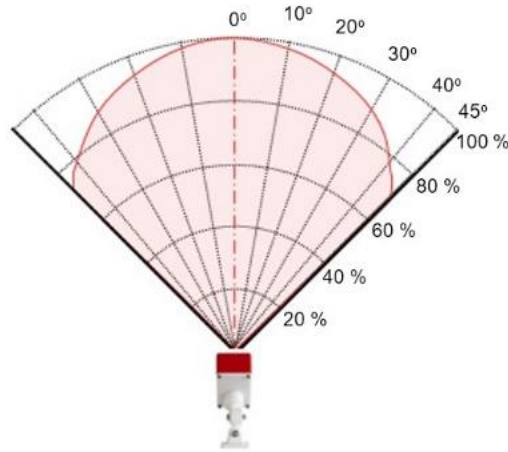
Green LED

### 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

[www.sense-ware.com](http://www.sense-ware.com)

# im&m

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