



**SENSE-WARE**  
THE FLAME DETECTOR  
COMPANY



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.

## Model UV/IR-210/1

### UV/IR Flame Detector

- 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

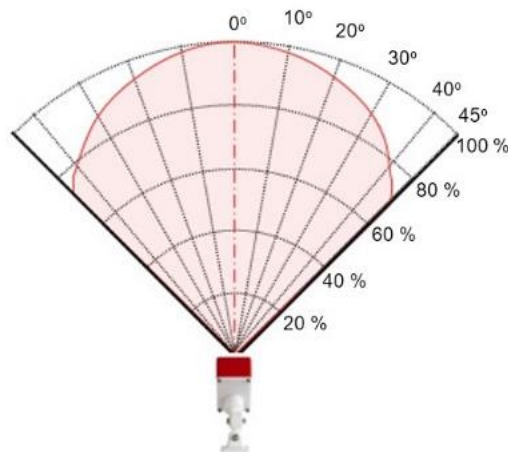
Green LED

### 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

**SENSE-WARE**  
THE FLAME DETECTOR  
COMPANY



## Model UV/IR-210/1

## 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**

## Europe, Middle East & Africa

### SENSE-WARE Fire & Gas Detection B.V.

Fokkerstraat 25  
3905 KV Veenendaal  
The Netherlands  
EU  
Phone: +31 88 736 7300  
Email: eu@sense-ware.com

## North & South America

### SENSE-WARE USA LLC

1037 Miller Lane  
Lake Shore, MN 56468  
USA  
Phone: +1 612 562 7365  
Phone: +1 218 330 4519  
Email: usa@sense-ware.com

## Asia Pacific

### SENSE-WARE A.P.

59 Fen Ji Hu, Danshui  
New Taipei City 25163  
Taiwan  
Mobile: +886 926 664 232  
Phone: +886 2 8626 2893  
Email: ap@sense-ware.com