SENSE-WARE
THE FLAME DETECTOR COMPANY

Flame Detector

UV/IR-210/1

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www.sense-ware.com

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

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.

5 YEARS WARRANTY FLAME DETECTOR

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 μm

Maximum Range
23 Meters (75 ft)
0.09 m^2 (1 Sq.Ft.) Heptane pan fire

Typical Response
<10 Seconds

Field of View
90º x 90º

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

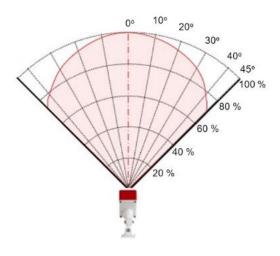**Relays**
Alarm & Fault SPDT

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 T71ºC 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

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