

UV/IR and IR4 Flame Detector

Model: SFD-1000U/SFD-1000R

General Characteristics:

Automatic Built-in-Test
 High Immunity to False Alarms
 Ingress Protection: IP66 (EN60529)
 Housing Material: Aluminum Die-cast
 Dimension: 166x127x102
 Weight: Appx. 1.5 Kg
 Cable Entry: 2xM20
 Cable Tyoe: 3x1.5 mm²
 Humidity: 95% RH
 Operating Temperature: -20 °C to +60 °C
 Power Supply: 400 mA max @ 18-30 VDC
 Normal, Fault and Alarm local LED indication
 Output Signals:
 4-20 mA Analog (Source)
 1 Alarm Relay De-energized Normally Open (Rating 7A 230 VAC)
 1 Fault Relay Energized Normally Open (Rating 7A 230 VAC)



Accessories:

UV/IR Simulator: SFD-1000-US
 IR4 Simulator: SFD-1000-RS
 Sunshade: SFDSS
 Pipe mount 2" U Bolt: SFD2PM
 Swivel Mounting Rotatable: SFDSDM



Ordering Number

SFD-1000- X (Sensor)- Y (Material)- T (SIL Rated)

U: UV/IR
 R: IR4

Y: Aluminum

Y: SIL2
 N: No-SIL

UV/IR and IR4 Flame Detector

SFD-1000R

SFD-1000U

Sensor:
Spectral Response:
Detection Range:

N-Heptane 0.1 m2 Pane Fire

-Low Sensitivity:
-Medium Sensitivity
High Sensitivity
-Very High Sensitivity
Response Time
Cone of Vision
SIL Rating according to IEC 61508:
**Explosion Proof:
IEC 60079 ATEX**
IEC 60079 IECEx

IR4

IR: 3-5 μ m

30 m

40 m

50 m

60 m

5 Second

V: 100° - H: 100°

SIL2

ATEX:
II 2G Exdb IIC T6 Gb

Ex db IIC T6 Gb

UV/IR

UV: 185-260 nm

IR: 4.2-4.6 μ m

20 m

25 m

30 m

35 m

5 Second

V: 100° - H: 100°

SIL2

ATEX:
II 2G Exdb IIC T6 Gb

Ex db IIC T6 Gb

Other Standards
Operational:

EN54-10

EMC:

IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4,
IEC 61000-4-5, IEC 61000-4-6

Environmental Resistance Standards:

IEC 60068-2-1, IEC60068-2-78, IEC60068-2-30

Vibration Resistance Standards:

IEC 60068-2-6

Shock Resistance Standards:

IEC 60068-2-27

Impact Resistance Standards:

IEC 62262