



FLAME DETECTORS – CONVENTIONAL

S65 UV FLAME DETECTOR



**SERIES 65 BASE-MOUNTED
UV FLAME DETECTOR**

DESCRIPTION

Flame detectors are effective in protecting areas where flaming fires may be expected.

The **Conventional Base-mounted UV Flame Detector** is designed to protect enclosed indoor areas where open flaming fires may be expected.

The detector has a fast acting response to flames up to 25 metres away and is equipped with a single UV sensor with a narrow spectral response in order to discriminate between flames and most spurious sources of radiation.

This UV Flame detector is sensitive to ultraviolet radiation emitted by flames during combustion. Since it requires only UV radiation the Flame Detector responds even to stationary flames with no flicker like cigarette lighters and blue gas flames.

The detector is set to respond to ultraviolet radiation (185 to 260 nm) emitted by almost all flames, including those invisible to the naked eye, eg. hydrogen fires.

This detector has a single UV sensor with a narrow spectral response in order to discriminate between flames and most spurious sources of radiation and is designed for internal fully enclosed areas.

This UV Flame detector will also detect electrical discharges from lightning or arc welding and is sensitive to UV radiation emitted by flames during combustion.

The Base-mounted **Flame Detector Bracket** option combines a Bracket and Deckhead Mounting Box.



FEATURES

- EN54-10 Compliant
- 10 Year Warranty
- Responds to stationary flames with no flicker
- Compact flame detector
- Zone-powered
- Compatible with Series 65 and Orbis Systems





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TECHNICAL SPECIFICATIONS

Supply Voltage	12-33 V DC
Quiescent Current	550 μ A
Terminal Functions	
L1 IN and OUT	Supply positive
L2	Supply negative
–R	Remote indicator negative connection
Alarm Voltage	6 to 33 V
Alarm Current	61 mA at 28 V / 54 mA at 24 V / 20 mA at 10 V
Remote Output Characteristics	Remote is a current sink to the negative line limited to 17 mA
Alarm Indicator	Red Light Emitting Diode (LED)
Design Alarm Load	420 Ω in series with a 2 V drop
Holding Voltage	6 V (min)
Holding Current	10 mA (min)
Minimum Voltage Required to Illuminate Indicators	12 V Alarm Reset Voltage <1 V Alarm
Reset Time	1 second
Range of View	0.1 m ² N-Heptane at 25 m
Sensitivity	Class 1 (EN54-10)
Field of View	90° cone
Spectral Response	UV 185 to 260 nm
Operating Temperature	-40 °C to +70 °C (no condensation or icing)
Storage Temperature	-40 °C to +85 °C
Relative Humidity	0-95% , non-condensing
IP Rating	IP42
Materials	
Housing	White polycarbonate V-0 rated to UL94
Terminals	Nickel-plated stainless steel
Dimensions	100 mm diameter; 40 mm height; 48 mm in base
Weight	150 g detector; 210 g in base

ORDERING INFORMATION

Product Code	Product Description
AP-FDS65-UV	Series 65 Base-mounted UV Flame Detector
AP-FD-B	Base-mounted Flame Detector Bracket
AP-S65-B	Series 65 Standard Base

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