



FLAME DETECTORS – CONVENTIONAL

S65 MARINE FLAME DETECTOR



SERIES 65 MARINE BASE-MOUNTED
UV FLAME DETECTOR

DESCRIPTION

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

The **Marine S65 Base-mounted Ultraviolet (UV) Flame Detector** is designed to protect internal areas where flaming fires may be expected.

UV flame detectors are designed for use in enclosed spaces and require a clear line of sight within the area to be protected. They are unaffected by draughts or convection currents.

This 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 Marine S65 UV Flame 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.

The 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.



KEY FEATURES

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





FLAME DETECTORS – CONVENTIONAL

S65 MARINE FLAME DETECTOR

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
Housing Material	White polycarbonate V-0 rated to UL94
Terminal Material	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-FDS65M-UV	Marine Series 65 Base-mounted UV Flame Detector
AP-FD-B	Base-mounted Flame Detector Bracket
AP-S65-B	Series 65 Standard Base

• **DISCLAIMER:** Although the contents of our product literature have been prepared with the greatest care, Technoswitch can accept no liability whatsoever for any direct or indirect damages of any kind that may arise due to either errors or omissions in them, or amendments to products or other specifications following publication.



HEAD OFFICE — JOHANNESBURG
Cussonia Park, 3 Ridge Road, Laser Park, Johannesburg **T** +27 (0)11 794 9144 **E** info@technoswitch.co.za
CAPE TOWN T +21 948 4575 **DURBAN T** +27 (0)31 266 8843

www.technoswitch.co.za

Document: DS S65 Marine Flame Detector 201104 E & OE