FLAME DETECTORS – INTELLIGENT
XP95 MARINE FLAME DETECTOR RANGE

DESCRIPTION

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

- UV flame detectors are generally used in engine rooms, factories and warehouse applications.
- IR flame detectors are able to tolerate dirtier environments which may block UV radiation and are generally used in applications such as waste handling, colour printing and paper manufacturing.

The Marine Intelligent Base Mounted **UV Flame Detector** is designed to protect **enclosed indoor areas** where open 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.

- Typical applications examples are engine rooms, factories, garages, hospitals, warehouses, the printing industry.

The Marine Intelligent Base Mounted **UV Dual IR Flame Detector** is designed to protect **open indoor areas** where open flaming fires may be expected.

The detector has UV and dual IR sensors responding to different wavelengths in order to discriminate between flames and spurious sources of radiation.

- Typical applications examples are aircraft hangars, automotive industry (spray booths, parts manufacturing), engine rooms, factories, garages, hospitals, power plants, transformer stations, and the printing industry.

The Marine Intelligent Base Mounted **IR3 Flame Detector** is designed to protect **all indoor areas**, even in dirty or smoky conditions, where open flaming fires may be expected. The detector has three IR sensors that respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation.

- Typical applications examples are agriculture (grain processing, animal feed manufacturing), aircraft hangars, the automotive industry (spray booths, parts manufacturing), power plants, printing, and transformer stations.

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

FEATURES

- EN54-10 Compliant
- 10 Year Warranty
- Compact flame detector
- Loop-powered

Three detection techniques available: ultraviolet (UV), infra-red (IR), and a combination of both:

- **IR2**: High immunity to false sources (indoor areas)
- **IR3**: Excellent immunity to false sources (indoor or outdoor areas)
- **UV/IR2**: Highest immunity to false sources (indoor or outdoor areas)

SPECIFICATIONS

	IR3 Flame Detector AP-FDXPM-IR3	UV Flame Detector AP-FDXPM-UV	UV/IR2 Flame Detector AP-FDXPM-UVIR2
Supply Voltage	17–28 V DC	17–28 V DC	17–28 V DC
Protocol	5-9 V	5-9 V	5-9 V
Quiescent Current	2.5 mA	2.3 mA	2.8 mA
Alarm Current	4.2 mA	4.2 mA	4.2 mA
Switch-on Surge Current	9 mA (peak) for 85 ms	9 mA (peak) for 110 ms	9 mA (peak) for 85 ms
Power-up Time	4 seconds	4 seconds	4 seconds
Remote Output Characteristics	Connects to positive through 4.5 kΩ (5 mA max)	Connects to positive through 4.5 kΩ (5 mA max)	Connects to positive through 4.5 kΩ (5 mA max)
Fire Alarm Threshold	Analogue value 55 returned after 10 Hz flame flicker for 1.5 seconds	Analogue value 55 returned after 10 Hz flame flicker for 1.5 seconds	Analogue value 55 returned after 10 Hz flame flicker for 1.5 seconds
Operating Range	25 m for 0.1 m² N-Heptane fire (EN54-10, Class 1)	25 m for 0.1 m² N-Heptane fire (EN54-10, Class 1)	25 m for 0.1 m² N-Heptane fire (EN54-10, Class 1)
Operating Temperature (no condensation or icing)	-40 °C to +70 °C	-40 °C to +70 °C	-40 °C to +70 °C
Storage Temperature	-40 °C to +70 °C	-40 °C to +85 °C	-40 °C to +70 °C
Relative Humidity	0-95% (no condensation)	0-95% (no condensation)	0-95% (no condensation)
IP Rating	IP42	IP42	IP42
Housing Material	white polycarbonate V-0 rated to UL94	white polycarbonate V-0 rated to UL94	white polycarbonate V-0 rated to UL94
Dimensions	100 mm diameter 40 mm height 48 mm in base	100 mm diameter 40 mm height 48 mm in base	100 mm diameter 40 mm height 48 mm in base
Weight	150 g detector 210 in base	150 g detector 210 g in base	150 g detector 210 g in base

ORDERING INFORMATION

Product Code	Product Description
AP-FDXPM-UV	Marine Intelligent Base Mounted UV/IR2 Flame Detector
AP-FDXPM-UVIR2	Marine Intelligent Base Mounted IR3 Flame Detector
AP-FDXPM-IR3	Marine Intelligent Base Mounted UV Flame Detector
AP-FD-B	Base Mounted Flame Detector Bracket
AP-XP-B	XP95 Mounting Base

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