Marine Intelligent

Stainless Steel IR³ Flame Detector



| Product overview | |
|-----------------------|--|
| Product | Marine Intelligent Stainless Steel Intelligent IR ³ Flame Detector |
| Part No. | 55000-034MAR |
| Digital communication | XP95 and Discovery compatible |

Approvals

Product information

The Marine Intelligent Stainless Steel IR³ Flame Detector is designed to protect areas where open flaming fires may be expected.

Operation

The Marine Intelligent IR³ Flame Detector is sensitive to low-frequency, flickering infra-red (IR) radiation emitted by flames during combustion. Since it responds to flickering radiation the IR³ Flame Detector can operate even if the lens is contaminated by a layer of oil, dust, water-vapour or ice.

The Marine Intelligent IR 3 Flame Detector is set to respond to low-frequency radiation at 1 to 15 Hz (1 to 2.7 μ m) in order to detect all flickering flames including those invisible to the naked eye, e.g. those emitted by hydrogen fires.

This detector has a heavy duty, stainless steel housing which is highly resistant to corrosion. The housing has been electro-polished to give a natural silver finish and has no need to be painted, making it ideal for marine applications.

Technical Data

All data is supplied subject to change without notice. Specifications are typical at 24V, 23°C and 50% RH unless otherwise stated.

Supply voltage 17 - 28 V dc

Digital communication XP95 and Discovery compatible

2.2 mA

Quiescent current 4 seconds

Maximum power-up time Limited to 2 mA

Remote LED current 0.1 m^2 n-heptane at 25 m Range of view (EN 54-10) 0.2 m^2 n-heptane at 35 m

0.4 m² n-heptane at 45 m

90° cone

Field of view 1.0 to 2.7 μm

Spectral response High - Class 1

Sensitivity (EN 54-10) Low - Class 3

Operating temperature -10°C to $+55^{\circ}\text{C}$ Storage temperature -20°C to $+65^{\circ}\text{C}$ Humidity (no condensing or icing)0% to 95% RH

IP rating IP65

Standards and approvals EN54-10, LPCB, MED and ABS

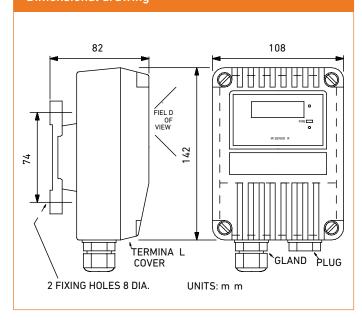
Dimensions 108 mm wide x 142 mm high x 82

mm depth

Weight 2.1 kg

Materials 316 Grade Stainless Steel

Dimensional drawing



36 Brookside Road, Havant Hampshire, PO9 1JR, UK.

Tel: +44 (0)23 9249 2412 | Fax: +44 (0)23 9249 2754 |

Email: sales@apollo-fire.com Web: www.apollo-fire.co.uk











The Marine Intelligent IR^3 Flame Detector has three IR sensors that respond to different IR wavelengths in order to discriminate between flames and spurious sources of radiation. False alarms due to such factors as flickering lighting are avoided by a combination of

filters and signal processing techniques.

Electrical description

The Marine Intelligent $\rm IR^3$ Flame Detector is loop powered and needs no external supply. A remote LED alarm indicator may be connected to the flame detector.

