



# HEAT & SMOKE DETECTORS – INTELLIGENT DISCOVERY MARINE DETECTORS

## DESCRIPTION

Marine detectors operate in the same way and carry the same approvals as standard detectors, but are subject to additional approvals tests, specific to the marine environment.

Discovery Marine intelligent fire detectors are suitable for larger vessels. The high specification range has been developed to meet the requirements of sophisticated systems. Discovery gives you total reassurance in installations where it is necessary to adapt detection to different operating environments and where protection against unwanted alarms is paramount.



The **Discovery Marine Optical Smoke Detector** works using the light-scatter principle and is ideal for applications where slow burning or smouldering fires are likely.

- Responds well to slow burning, smouldering fires
- Suitable for bedrooms and escape routes
- Unaffected by wind or atmospheric pressure
- Remote test feature
- Rejection of transient signals



The **Discovery Marine Multi-sensor Detector** comprises optical smoke and thermistor temperature sensors which give both a combined signal as well as a separate heat signal for improved false alarm management.

- Ideal for a wide range of applications
- High immunity to false alarms
- Unaffected by wind or atmospheric pressure
- Remote test feature
- Rejection of transient signals



The **Discovery Marine Ionisation Smoke Detector** uses a low activity radioactive foil to detect fires by irradiating the air in the smoke chamber and causing a current flow. If smoke enters the chamber, the current flow is reduced leading to an alarm.

- Responds well to fast burning, flaming fires
- Designed to operate in a variety of environments
- Remote test feature
- Rejection of transient signals



The **Discovery Marine Heat Detector**, distinguishable by the low airflow resistant case, uses a single thermistor to sense the air temperature around the detector.

- Ideal in environments that are dirty or smoky
- Unaffected by wind or atmospheric pressure
- Remote test feature

## KEY FEATURES

- Approved for use in the marine environment.
- Discovery Marine detectors comply with MED and are approved by various bodies including, but not limited to, American Bureau of Shipping; Bureau Veritas; Lloyd's Register of Shipping; and Maritime and Coastguard Agency.
- Five response modes for environmental adaptation approved and certified to CPD and EN54.
- Day/night switching for increased flexibility.
- Drift compensation for false alarm reduction.
- User programmability for data retention.
- XPERT card addressing for increased security.
- 10 Year Warranty.

## APPROVALS

- EN54-3, EN54-5, EN54-7, EN54-11, EN54-17, EN54-23, CPD, CPR, LPCB, VdS, AFNOR, BOSEC, FG, SBSC, SIL, VNIPO and others.
- Discovery is also approved to both North American (UL, FM) and Marine standards.
- Discovery complies with the requirements of a number of European New Approach Directives such as the EMC Directive 2004/108/EC, the Construction Products Directive 89/106/EEC and Construction Products Regulation 305/2011.





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All detectors in the Discovery Marine range are for use with the **Marine Mounting Base**. The mounting base is a low insertion force base with stainless steel contacts for the detector terminals. XPERT cards are supplied with all bases.

- XPERT addressing
- One way fit
- Locking feature to prevent unauthorised removal



The **Marine Isolating Base** senses and detects short-circuit faults on Discovery loops and spurs.



The **Discovery Marine Isolator** is placed at intervals on the loop and ensures that, in the case of a short-circuit, only the section between the isolators will be affected. When the short-circuit is removed, the isolators automatically restore power in the isolated section.

- Detects wiring short-circuits using patented technology
- Minimises disruption from short-circuits
- Automatic de-isolation on short-circuit removal
- Up to 20 detectors or equivalent load may be installed between isolators

The **Deckhead Mounting Box** gives extra protection to devices to be fitted in areas where there is the possibility of moisture or condensation ingressing through the rear of the base.



The **Discovery Marine Manual Call Point with Isolator** has been approved to EN54-11 and the Marine Equipment Directive 96/98/EC. The Marine Manual Call Point boast an IP45 rated (Indoor) and IP67 rated (Outdoor) model to meet the demands of Marine and Offshore environments.

- Resettable element for testing
- Easy access, front reset mechanism
- A unique, ergonomically designed key for resetting and front cover removal
- IP45 Rated (Indoor Only)
- IP67 Rated (Outdoor Only)

## ORDERING INFORMATION

Product Code	Product Description
AP-DISM-H	Discovery Marine Heat Detector Fixed or ROR; Class Selectable (65-100°C)
AP-DISM-I	Discovery Marine Ionisation Detector
AP-DISM-MS	Discovery Marine Multi-sensor Detector
AP-DISM-O	Discovery Marine Optical Smoke Detector
AP-DISM-B	Discovery Marine Detector Base
AP-DISM-MB	Discovery Marine Deckhead Mounting Box
AP-DISM-ISL	Discovery Marine Isolator
AP-DISM-IB	Discovery Marine Isolator Base

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