

Fire detection and evacuation solutions that save lives.

Orbis – Marine Heat Detector (Int)

Features

- Can be used for applications where smoke detectors are unsuitable
- Ideal in environments that are dirty or smoky under normal conditions
- Red flashing LED at StartUp confirms the device is operating
- SensAlert, yellow flashing LED, indicates faulty operation
- FasTest takes just four seconds to test and confirm detectors are functioning correctly

Description

The Orbis Heat Detector monitors temperature by using a single thermistor which provides a voltage output proportional to the external air temperature. Heat detectors are used in applications where smoke detectors are unsuitable.

The Orbis range incorporates six heat detector classes to suit a wide variety of operating conditions. All heat detectors in the Orbis range are tested as static or rate-of-rise detectors and are classified as A1R, A2S, BR, BS, CR and CS.

Orbis heat detectors have an open web casing that allows air to flow freely across a thermistor which measures the air temperature every 2 seconds. A microprocessor stores the temperatures and compares them with pre-set values to determine whether a fixed upper limit, the alarm level, has been reached.

In the case of rate-of-rise detectors the microprocessor uses algorithms to determine how fast the temperature is increasing.

Static heat detectors respond only when a fixed temperature has been reached. Rate-of-rise detectors also have a fixed upper limit but they also measure the rate of increase in temperature. A fire might thus be detected at an earlier stage than with a static detector so that a rate-of-rise detector is to be preferred to a static heat detector unless sharp increases of heat are part of the normal environment in the area protected by the heat detector.



Marine Heat Detector

Specifications

Operating Voltage	8.5 to 33 VDC
Quiescent current	65µA at 24 VDC
Alarm current	40mA at 24 VDC
Remote output	1.2kΩ to -ve supply
Dimensions	100mm Dia x 51mm H inc base
Operating temperature	-40°C to +70°C (no icing)
Relative humidity.	0 to 98% (non condensing)
IP rating	IP23D
Weight	70 grams (130g inc base)
Approvals	Lloyd's Registry, American Bureau Shipping, Korean Register & China Classification Society.

Item Numbers

ORB-HT-41001-MAR	Orbis Marine A1R (50°C) Heat Detector Rate of Rise
ORB-HT-41002-MAR	Orbis Marine A2S (50°C) Heat Detector Static
ORB-HT-41003-MAR	Orbis Marine BR (65°C) Heat Detector Rate of Rise
ORB-HT-41004-MAR	Orbis Marine BS (65°C) Heat Detector Static
ORB-HT-41005-MAR	Orbis Marine CR (80°C) Heat Detector Rate of Rise
ORB-HT-41006-MAR	Orbis Marine CS (80°C) Heat Detector Static

Flashing LED version available on request.