

Orbis – Heat Detector

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.

Item Numbers

	LPCB (EN54-5)	SAI Global (AS7240-5)	Activfire (AS7240-5)
Orbis A1R Heat Detector	ORB-HT-11001_AMP	4106-1053	
Orbis A2S Heat Detector (Type B)	ORB-HT-11002_AMP	4106-1054	201-0504
Orbis BR Heat Detector (Type A)	ORB-HT-11003_AMP	4106-1055	201-0500
Orbis BS Heat Detector	ORB-HT-11004_AMP	4106-1056	
Orbis CR Heat Detector (Type C)	ORB-HT-11005_AMP	4106-1057	201-0508
Orbis CS Heat Detector (Type D)	ORB-HT-11006_AMP	4106-1058	201-0510



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 (indoor use)
Weight	70 grams (130g inc base)
Approvals	EN54-5

Refer Product Guide for Flashing LED Items Numbers.

For further information refer Product Guide, MAN1507.

