

Fire detection and evacuation solutions that save lives.

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.



Heat Detector

Specifications		
Operating Voltage	8.5 to 33 VDC	
Quiescent current	65μA at 24 VDC	
Alarm current	40mA at 24 VDC	
Remote output	$1.2k\Omega$ 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.

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







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