

PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :	/		
PO NO. / DT. :	/		
PRODUCT NAME :	HEAT DETECTOR		
PART NO. :	/		
PRODUCT CODE :	/		
DOCUMENT NAME :	HEAT DETECTOR DATA SHEET		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0

Orbis

Heat Detector



Note: Not all standards and approvals apply to all Part Numbers,

Product overview

Product	Orbis Heat Detector	Orbis Heat Detector with flashing LED
	Part No.	Part No.
Class A1R	ORB-HT-11001-APO	ORB-HT-11013-APO
Class A1S	ORB-HT-11166-APO	ORB-HT-11167-APO
Class A2S	ORB-HT-11002-APO	ORB-HT-11014-APO
Class BR	ORB-HT-11003-APO	ORB-HT-11015-APO
Class BS	ORB-HT-11004-APO	ORB-HT-11016-APO
Class CR	ORB-HT-11005-APO	ORB-HT-11017-APO
Class CS	ORB-HT-11006-APO	ORB-HT-11018-APO

Product information

The Orbis Heat Detector range incorporates six heat detector classes to suit a wide variety of operating conditions in which smoke detectors are unsuitable.

The European Standard EN 54-5 classifies heat detectors to the highest ambient temperature in which they can safely be used without risk of false alarm. The classes are identified by the letters A to C (Class 1 is sub-divided into A1 and A2). In addition to the basic classification, detectors may be identified by a suffix to show that they are rate-of-rise (suffix R) or fixed (static) temperature (suffix S) types.

- 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 or CS.

All data is supplied subject to change without notice. Specifications are typical at 24 V, 25°C and 50% RH unless otherwise stated.

Technical Data

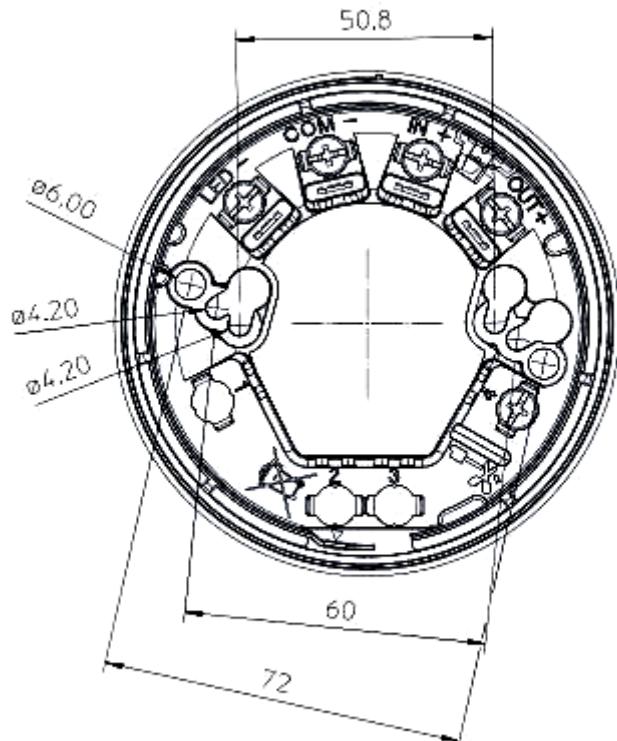
<i>Detection principle</i>	<i>Measurement of heat by means of a thermistor</i>
<i>Sampling frequency</i>	<i>Once every two seconds</i>
<i>Supply voltage</i>	<i>8.5 V dc to 33 V dc</i>
<i>Supply Wiring</i>	<i>Two wire supply, polarity sensitive</i>
<i>Maximum polarity reversal</i>	<i>200 ms</i>
<i>Power up time</i>	<i>< 20 seconds</i>
<i>Minimum 'detector active' voltage</i>	<i>6 V</i>
<i>Power-up surge current at 24 V</i>	<i>95 µA</i>
<i>Average quiescent current at 24 V</i>	<i>95 µA</i>
<i>Alarm current 12 V 24V</i>	<i>20 mA 40 mA</i>
<i>Alarm load</i>	<i>600 Ω</i>
<i>Holding voltage</i>	<i>5V-33V</i>
<i>Minimum holding current</i>	<i>8 mA</i>
<i>Minimum voltage to light alarm LED</i>	<i>5 V</i>
<i>Alarm reset voltage</i>	<i>< 1 V</i>
<i>Alarm reset time</i>	<i>One second</i>
<i>Alarm indicator</i>	<i>Integral indicator with 360° visibility</i>
<i>Remote output LED (-) characteristic</i>	<i>1.2 kΩ connected to negative supply</i>
<i>Operating and storage temperature</i>	<i>-40°C to +70°C</i>
<i>Humidity (no condensation or icing)</i>	<i>0% to 98% RH</i>
<i>Effect of atmospheric pressure on optical sensor</i>	<i>None</i>
<i>Effect of wind speed</i>	<i>None</i>
<i>IP Rating</i>	<i>IP44</i>
<i>Standards and approvals</i>	<i>EN54-5, CPR, LPCB, VdS, BOSEC, SBSC, FG and CSIRO</i>
<i>Dimensions</i>	<i>97 mm diameter x 36 mm height</i>
<i>Weight</i>	<i>70 g detector</i>
<i>Materials</i>	<i>Housing: White flame-retardant polycarbonate</i>
<i>Terminals: Nickel plated stainless steel</i>	

All information in this document is given in good faith but Apollo Fire Detectors Ltd cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.



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FIXING DETAILS



**MOUNTING BASE
TO BE ORDERED SEPERATELY**

