6296

Enclosed Conventional Heat Detector, Weatherproof IP67, 72°C, Class BS

General

Heat detectors are normally used in rooms where the temperature can be expected to rise rapidly in case of a fire, or in places where smoke detectors cannot be used. The 6000 series heat detectors are intended for outdoor or indoor use in high humidity areas.

Fixed Temperature Alarm Level

The 6000 series detectors are conventional fixed temperature heat detectors, i.e. they will give an alarm within a response temperature range in accordance with EN54-5:2000. The sensing element is a heat pick-up shield and a bimetal switch. An LED on the detector (not available on the 6298) will light up when the detector activates. All detectors support an output for a remote indicator. The following types are available (static response temperature, class & EN54-5 temperature range): • 6295, 57°C, class A2 S (54 to 70°C) • 6296, 72°C, class B S (69 to 85°C) • 6297, 87°C, class C S (84 to 100°C) • 6298, 117°C, class E S (114 to 130°C).

Operation

All detectors are latching, i.e. they will not be automatically reset if the temperature, after the alarm, falls below the detector's static response temperature. The detector's LED and a connected remote LED will be lit until the detector is reset via the C.I.E.

Installation

All electronic componets are mounted in a grey waterproof detector housing and fitted to the supplied connection box. The connection box has three cable inlets. Three compression glands and a silicon gasket for IP67 protection are supplied with the product. All detectors are provided with three pairs of flying leads with female push-on connectors to connect the zone line cables (in / out) and the remote indicator.

Details

- Fixed temperature alarm level
- Waterproof (IP67)

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Technical Specifications

Electrical

Current consumption	0 mA (Quiescent) 6 - 40 mA (±400 Ω) (Alarm, Internal Resistance)

Physical

Colour	Grey
Physical dimensions	100 x 75 mm (Ø x D)
Net weight	216 g
Size ø x h (incl. base)	100 x 75 mm
Weight	216g
Construction	Modified Polycarbonate
Colour	Grey

Environmental

Operating temperature	-40 (min) / +25 (nom) / +50°C (max)
Storage temperature	-45 to +70°C
Environment	Indoor, Outdoor, Exd
IP-rating	IP67
IP rating	IP67
Static response temperature	72°C

Standards & Regulation

Certification	CENELEC/ATEX, EN54-5

Supply

Range (Nom)	12 - 30 VDC (24 VDC)

Current consumption

Quiescent	0 mA
Alarm (internal resistance)	6 - 40 mA (±400Ω)

Remote indicator

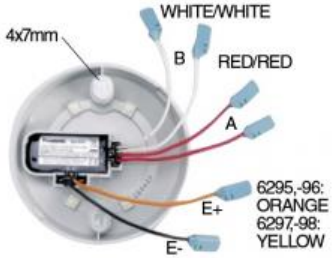
Supply	Supply-2VDC
Current (max)	10 mA

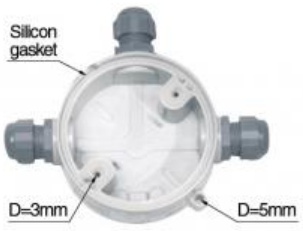
Temperature

Operating (min / nom / max)	-40 / +40 / +65°C
Storage (min / max)	-45 / +70°C

Approvals

Certification	EN54:5, CE, CPD
ATEX Classification	II 3 G Ex ic IIC T5 Gc, II 3 D Ex ic IIIC T100°C Dc -40°C ≤ Ta ≤ 65°C / EN 60079-0:2009, EN 60079-11:2012





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