

# Aero-X<sup>®</sup> Thermac Heat Detector

robust, fast response, resetting type  
heat detector



## Introduction

The Aero-X<sup>®</sup> Thermac detector is a heat sensitive electrical switch. It is a fixed temperature device with a factory pre-set temperature in the range 60°C to 240°C.

The detector comprises a pair of normally open electrical contacts mounted within a stainless steel probe. A rise in temperature will cause the contacts to close at the set point temperature. With a drop in temperature the procedure reverses and the contacts re-open below the set point temperature.

The detector body is a seamless one-piece unit, precision machined from AISI 316 stainless steel with high corrosion resistance.

The electrical contacts are gold/silver plated and lead cables are nickel plated copper with PTFE/glass insulation. The cables are to aircraft engine specification.

The operating parts are factory calibrated and permanently sealed against severe environmental condition.

The detector comes with an IP67, EN45545 coated, aluminum housing.



Picture: Aero-X<sup>®</sup> Thermac Heat Detector



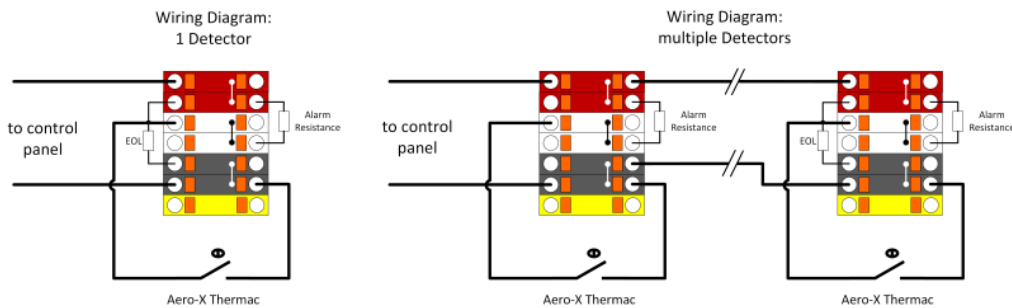
## Technical specification

• Dimension (l x w x h)	80 x 75 x 151 mm
• Weight	515 g.
• Enclosure material	Aluminum
• Probe material	AISI 316
• Coating	black; EN45545
• Degree of protection	IP 67
• Max. amount of cable glands	2 x M16
• Relative humidity	100%
• Rated voltage DC @ 0.25A	32 VDC max.
• Rated Voltage AC @ 0.25A	32 VDC max.
• Operating current	0.25 A max.
• Set temperature range	+60°C to +240°C
• Ambient temperature range	-40°C to +180°C
• Sensitivity & accuracy	+/- 5% or 5°C
• Integrated alarm resistance	680 Ω
• Integrated EOL resistance	10 k Ω

## Key features

- Resetting type heat detector
- Rate compensation & fast response
- Wide temperature range
- Gold plated electrical contacts
- Corrosion & shock resistant
- Intrinsically safe: Classed as simple apparatus and installed with a suitable I.S. barrier

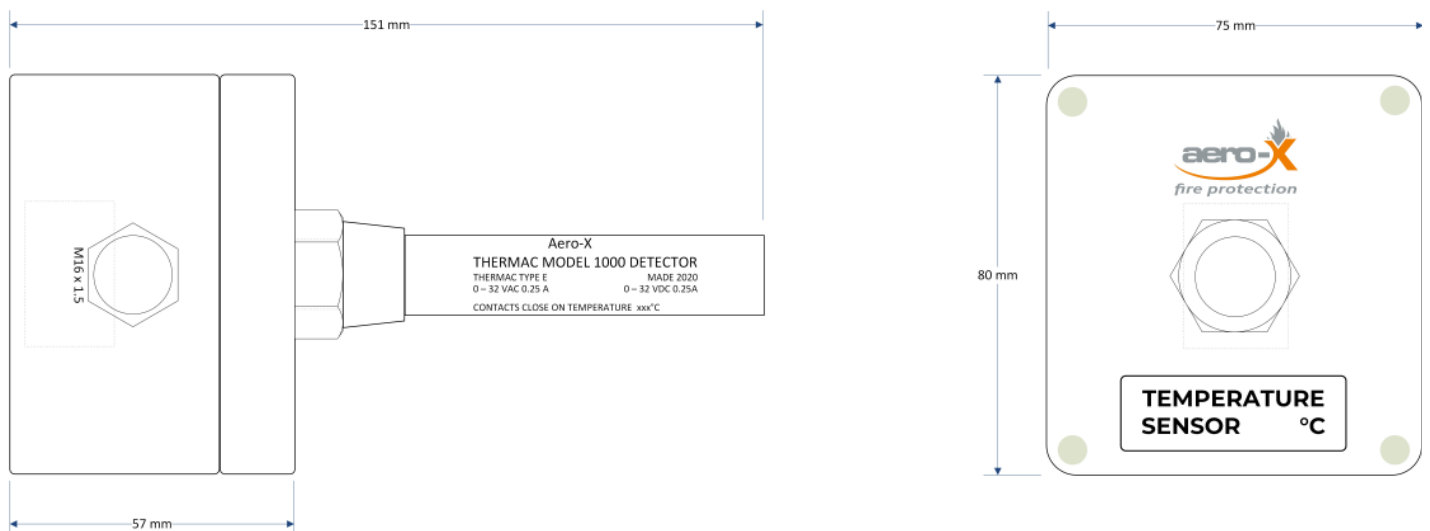
## Connection



## Temperatures

- 68 °C
- 88 °C
- 105 °C
- 138 °C
- 180 °C
- 240 °C

The detectors may be set to any nominated alarm temperature between 60 and 240°C. Any variation from the above mentioned values affect price & delivery time.



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