

Description

The XP95A Heat Detector monitors temperature by using a single thermistor which provides a voltage output proportional to the external air temperature. It is classified as an ordinary detector by UL.

Operation

The XP95A Heat Detector has a common profile with the ionisation and optical smoke detectors but has a low air flow resistance case made of white polycarbonate.

The device monitors heat using a single thermistor network which provides a voltage output proportional to the external air temperature.

Electrical description

The XP95A Heat Detector is designed to be connected to a two-wire loop circuit carrying both data and a 17 V to 28V dc supply. The detector is connected to the incoming and outgoing supply via terminals L1 and L2 in the mounting base. A remote LED indicator requiring not more than 1 mA may be connected between the +R and L2 terminals. An earth connection terminal is also provided. The detector is calibrated to give an analogue value of 25 ± 5 counts at 70°F. This value increases with rising temperature. A count of 55 corresponds to the UL alarm sensitivity level of 135°F.

When the detector is energized the ASIC regulates the flow of power and controls the data processing. The thermistor provides an output over normal operating ranges that is proportional to the external air temperature. The voltage output is processed in the analogue to digital converter and stored by the communications ASIC. It is transmitted to the control equipment when the device is interrogated. When a count of 55 is exceeded the alarm, flag is initiated and the device address is added to the data stream every 32 polling cycles from its last polling for the duration of the alarm level condition, except when an alarming device is being interrogated. This can provide a location identified alarm from any device on the loop in approximately two seconds.

Environmental characteristics

The XP95A Heat Detector range is unaffected by wind or atmospheric pressure. Standard detectors are rated at 200 °F



Features

- Electronic temperature sensing
- Alarm flag for fast alarm responding
- Automatic addressing with the XPERT 7 card
- Electronic 4" or 6" base
- Easy installation
- Elegant design
- Ideal for environments that are dirty or smoky under normal circumstances
- Well suited for warehouses, loading docks and parking areas

Listing



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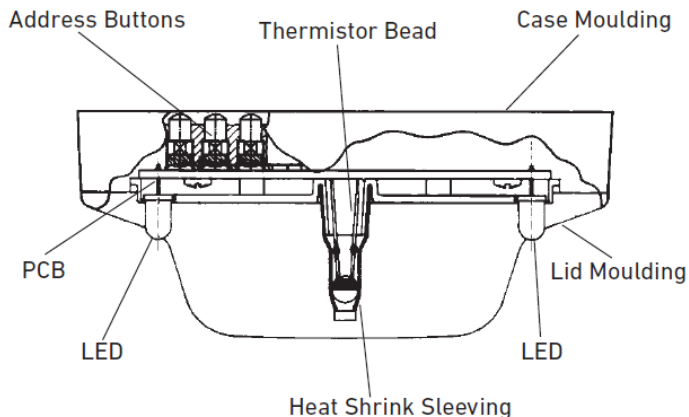


9564 Yellowhead Trail NW Tel 780.462.7100
Edmonton, Alberta, T5G 0W4 Fax 780.450.8396
sales@harding-tech.com www.harding-tech.com



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XP95A Heat Detector Diagram



Response Characteristics of XP95A Heat Detector

Type of Fire	Heat Detector
Overheating/ Heat Combustion	Very Poor
Smouldering/ Glowing Combustion	Very Poor
Flaming Combustion	Poor
Flaming with High Heat Combustion	Moderate/ Good
Flaming – Clean Burning	Moderate/ Good

Specification

All data is supplied subject to change without notice. Specifications are typical at 24 V, 73°F and 50% RH unless otherwise stated.

Sensor	Single NTC Thermistor
Sampling Frequency	One Second
Digital Communication	XP95 (Discovery and CoreProtocol Compatible)
Supply Voltage	17 – 28 V dc
Modulation Voltage	5 – 9 V peak to peak
Supervisory Current	250 μ A
Surge Current	1 mA
Alarm Current	3 mA max
Temperature Range	32°F to 151°F
Humidity (no condensing or icing)	10% to 95% RH
Dimensions	3.93 in diameter x 1.65 height
Weight	3.70 oz
Material	Housing: White flame retardant polycarbonate Terminals: Nickel plated stainless steel
Test Method	Hair dryer
Spacing	Smooth Ceiling: 60 ft Wall or partition: 25 ft

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