Advanced XP95A Heat Detector

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

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 70OF. This value increases with rising temperature. A count of 55 corresponds to the UL alarm sensitivity level of 135ºF.

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.

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.

Environmental characteristics

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



Features

- Compatible with all devices from the latest UL268 7th Edition approved XP95A range
- Electronic temperature sensing
- Easy installation
- XPERT card addressing
- Electronic free 4” or 6” bases
- Ideal for environments that are dirty or smoky under normal circumstances
- Well suited for warehouses, loading docks and parking areas

Listings and Approvals

- Approved to UL521 7th Edition

This detector is a direct replacement for the 55000-450AEL XP95A heat detector.

Specification

Digital communication protocol	XP95
Sensor	Single NTC thermistor
Sampling frequency	One second
Supply voltage (Vmin-Vmax)	17-28 Vdc
Modulation voltage	5-9V peak to peak
Supervisory current	250 µA
Switch-on surge current	1.0 mA
Alarm/operated current	3.0 mA
Product operating temperature	32° F to 131° F (0° C to 55° C)
Humidity	0% to 95% RH (no condensation or icing)
Weight	3.70 ounces
Dimensions	3.93" diameter x 1.65" height
Materials	Housing: White flame-retardant polycarbonate. Terminals: Tin-plated stainless steel

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

Order Codes and Options

SA5500-450ADV	Advanced AX XP95A Smoke Detector
SA5000-210ADV	Axis AX UL Base - 4"
SA5000-230ADV	Axis AX UL Base - 6"

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As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice.