XP95A
Heat Detector

Product overview

Product	**XP95A Heat Detector**
Part No.	**SA5500-450**
Digital Communication	**XP95 protocol**

Product information

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.

- Compatible with all devices from the latest UL268 7th Edition approved XP95A range
- Electronic temperature sensing
- Alarm flag for fast alarm responding
- Automatic addressing with the XPERT 7 card
- Electronic-free base 4" or 6"
- Easy installation
- Elegant design
- Ideal for environments that are dirty or smoky under normal circumstances
- Well suited for warehouses, loading docks and parking areas

Manufacturer's Specification

CAUTION: System compatibility
The XP95A Heat Detector, Part No. SA5500-450 can only be used on existing systems operating with XP95 protocol.

This detector is a direct replacement for the 55000-450 XP95A Heat Detector.

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*
Supply voltage	*17 V - 28 V dc*
Modulation Voltage at Detector	*5 V to 9 V peak to peak*
Supervisory current	*250 µA*
Surge current	*1 mA*
Alarm current	*3 mA max*
Operating temperature range	*32 °F to 151°F*
Humidity	*0% to 95% RH (no condensation or icing)*
Dimensions	*3.93" diameter x 1.65" height*
Weight	*3.70 oz*
Materials	*Housing: White flame-retardant polycarbonate*
	Terminals: Tin plated stainless steel
Test method	*Hair dryer*
Spacing	
Smooth ceiling	*50 ft*
to wall or partition	*25 ft*

36 Brookside Road, Havant
Hampshire, PO9 1JR, UK.
Tel: +44 (0)23 9249 2412
Fax: +44 (0)23 9249 2754
Email: enquiries@apollo-fire.com
Web: www.apollo-fire.co.uk

Operation

The XP95A Heat Detector 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 17V 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 4mA at 5V may be connected between the +R and -R terminals.'

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.

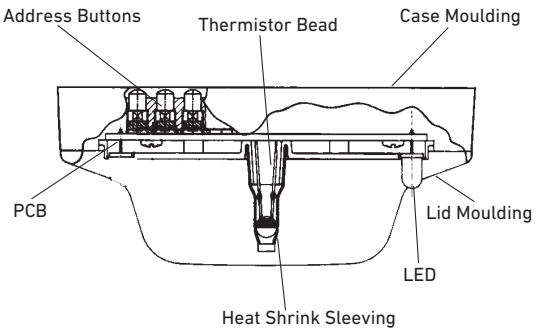
Response characteristics of XP95A Heat Detector

Type of fire	Heat Detector
Overheating/Heat combustion	Very poor
Smouldering/glowing combustion	Very poor
Flaming combustion	Poor
Flaming with high heat output	Moderate/Good
Flaming - clean burning	Moderate/Good

Part Number	Product Name
SA5000-210	*Soteria UL Base - 4"*
SA5000-230	*Soteria UL Base – 6"*
SA5300-800	*Soteria UL CO Sounder Base - 6" High Frequency*
SA5300-802	*Soteria UL Sounder Base - 6" High Frequency*
SA5300-805	*Soteria UL CO Sounder Base - 6" Low Frequency*
SA5300-806	*Soteria UL Sounder Base – 6" Low Frequency*

	Smoke	Multi-Criteria	Heat
For existing XP95A installations choose:	***SA5050-250** XP95A Smoke Detector*	***SA5050-350** XP95A Multi-Criteria Detector (Smoke/Heat)*	***SA5500-450** XP95A Heat Detector*

XP95A Heat Detector diagram



This datasheet is to be used for marketing purposes only. All information on this datasheet is subject to change without notice. Technical information about installation can be found in the product installation guide which can be found on our website.