



XP95 Heat Detector – High Temperature

Addressable – Devices

Part No. 55000-401APO

www.illuminoignis.co.uk

Product Details

The XP95 Heat Detector monitors temperature by using a single thermistor which provides a count output proportional to the external air temperature.

Key Features

- Ideal for environments that are dirty or smoky under normal circumstances
- Unaffected by wind or atmospheric pressure



Technical Specifications

All data is supplied subject to change without notice. Specifications are typical at 24 V, 25°C and 50% RH unless otherwise stated.

Detection principle	Linear approximation over temperature range 25°C to 90°C		Analogue value at 25°C	25 ± 5 counts
Sensor	Single NTC thermistor		Alarm indicator	Red light emitting diode (LED)
Sampling frequency	Continuous		Alarm LED current	4 mA
Sensitivity	90 °C: 55 counts		Remote LED current	Internal 4.5 k to +ve line (5 mA max)
Supply Wiring	Two wire supply, polarity insensitive		Storage temperature	-30°C to +80°C
Terminal functions	L1 & L2	Loop in & out positive	Operating temperature	-20°C to +70°C
	+R	Remote indicator positive connection (internal 2.2 kΩ resistance to supply +ve)	Humidity (no condensation or icing)	0% to 95% RH)
	-R	Remote indicator negative connection (internal 2.2 kΩ resistance to supply -ve)	Effect of atmospheric pressure	None
Supply voltage	17 V to 28 V dc		Effect of wind speed	None in fixed temperature use
Digital communication	XP95, Discovery and CoreProtocol compatible		Vibration, impact and shock	To EN 54 - 5
Modulation voltage	5 V - 9 V peak to peak		IP Rating	IP54
Quiescent current	300 µA		Standards and approvals*	EN54, CPR, LPCB, VdS, BOSEC, SBSC, CCMG, FG
Power-up surge current	1mA		Dimensions	100mm diameter x 42 mm height
Duration of power-up surge current	0.3 seconds		Weight	105g
Max power-up time	4 seconds		Material	Housing: White flame retardant polycarbonate Terminals: Nickel plated stainless steel
Compliance	55000-401; CPR, LPCB, BOSEC, CCMG, SBSC, only			

All information in this document is given in good faith but Apollo Fire Detectors Ltd cannot be held responsible for any omissions or errors. The company reserves the right to change the specifications of products at any time and without prior notice.



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Operation

The XP95 Heat Detector has a common profile with the XP95 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 Heat Detector is designed to be connected to a two wire loop circuit carrying both data and a 17 V to 28 V 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 4 mA at 5V may be connected between the +R and -R terminals. An earth connection terminal is also provided. The detector is calibrated to give an analogue value of 25 ± 5 counts at 50°C. This value increases with rising temperature. A count of 55 corresponds to the EN 54 alarm sensitivity level.

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 XP95 Heat Detector range is unaffected by wind or atmospheric pressure. Standard detectors operate over the temperature range -20°C to +70°C.

EMC Directive 2014/30/EU

The XP95 Heat Detector complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this datasheet.

A copy of the Declaration of Conformity is available from Apollo upon request.

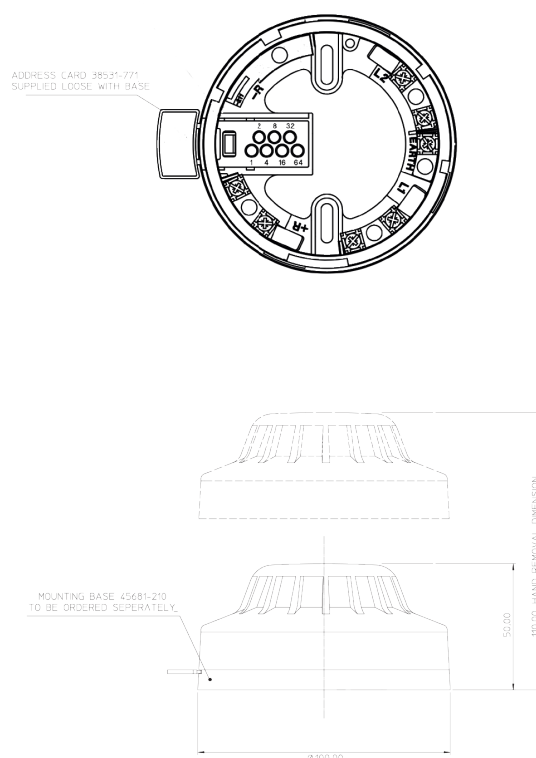
Conformity of the XP95 Heat Detector with the EMC Directive, does not confer compliance with the directive on any apparatus or systems connected to it.

Construction Products Regulation 305/2011/EU

The XP95 Heat Detector complies with the essential requirements of the Construction Products Regulation 305/2011/EU.

A copy of the Declaration of Performance is available from Apollo upon request.

XP95 Heat Detector dimensional drawing



XP95 Heat Detector sectional diagram

