



## Operation

The XP95 I.S. Heat Detector has a common profile with the optical smoke detector 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 14 V to 22 V dc supply. The detector is connected to the incoming and outgoing supply via terminals L1 and L2 in the mounting base.

## Remote LED connection

A drive point is provided on the XP95 I.S. Optical Smoke Detector for a remote LED indicator. The indicator must be a standard high-efficiency RED LED and does not require a series limiting resistor since current is limited within the detector to approximately 500  $\mu$ A. Unlike the standard XP95 range, the remote LED cannot be controlled independently from the integral LED since it is effectively connected in series with the integral LED. The benefit of this configuration is that the illumination of the LED does not increase the current drawn from the loop.

System certification allows for the use of any LED indicator having a suitable surface area between 20 mm<sup>2</sup> and 10 cm<sup>2</sup> which covers all commonly used case styles from T1 (3 mm) upwards but would exclude some miniature and surface mounted types. Additional requirements of the certification are that the LED and its terminations must be afforded a degree of protection of at least IP20 and must be segregated from other circuits and conductors as defined in BS EN 60079-14.

The Apollo MiniDisc Remote Indicator, Part No. 53832-070, is suitable using terms X + Y.

## EMC Directive 2014/30/EU

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

## Construction Products Regulation (EU) 305/2011

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

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

## Marine Equipment Directive 2014/90/EU

The XP95 I.S. Heat Detector complies with the essential requirements of the Marine Equipment Directive 2014/90/EU.

## ATEX Directive 2014/34/EU

The XP95 I.S. Heat Detector complies with the essential requirements of the ATEX Directive 2014/34/EU.

XP95 I.S. Heat Detector sectional diagram

