

The ZP720-2 analogue thermal sensor is a thermistor controlled device which responds to changes in its ambient temperature. The device provides a reliable response to fires in areas where environmental conditions may prohibit the use of smoke sensors.

The sensitivity of each sensor is set by the ZP control panel and can be adjusted between four levels - from 58°C to 75°C either manually or, automatically on a timed basis. At sensitivity level two, the ZP720-2 fully meets the requirements of European Standard EN 54 Pt 5 (grade 1) and is approved by several international approval bodies.

Up to 127 sensing devices can be connected to each of the control panel loops. All loop devices incorporate switch settings enabling them to be given a unique address, which is polled by the panel every two seconds.

Temperature levels are continuously sensed by the unit and transmitted via the ZP wiring loop as electronic signals, which are assessed and verified by the control panel prior to any alarm decision being taken.

Sensor sensitivity, calibration and self test are carried out automatically by the ZP3 system. Removal or replacement of an incorrect sensing device, will be identified by the system and shown as a fault.

Whilst effective in operation the ZP720-2 is unobtrusive when installed. The low profile moulding together with either surface or recessed bases makes the unit ideal for both commercial and industrial interiors. A red LED indicator situated on the sensor moulding flashes to indicate when the unit is in alarm.

For ease of removal sensors plug into a range of base units by a simple twist and lock action. A site selectable option is provided to lock the sensor into its base. Once applied the unit can only be removed by means of a special tool.

Space for address labels is provided on sensor and base mouldings - ensuring units are replaced in their correct location and address numbers can be identified from floor level.

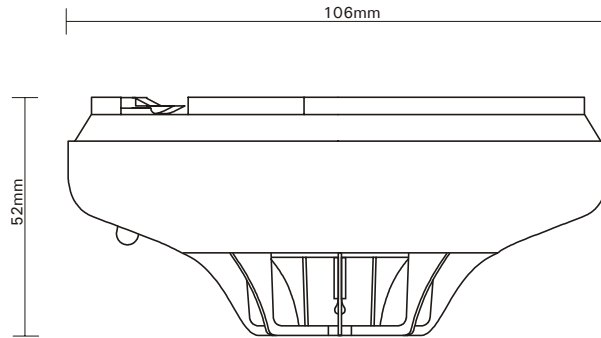


ZP720-2

Analogue Thermal Sensor

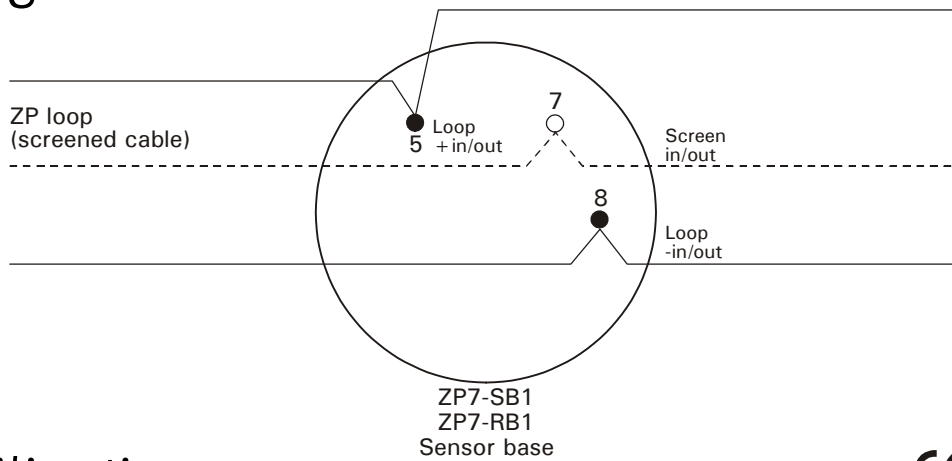
- **Analogue sensing - reduces false and unwanted alarms**
- **Addressable - system knows the status and location of every sensor**
- **Automatic sensitivity adjustment, alarm verification and self test**

Dimensions



Note: Dimensions shown without base.

Wiring Schematic



Specifications



Model No.	Part No.	Specification	Operating temp	Performance
ZP720-2	10600	EN54 Pt5 : 1977	58°C to 75°C (4 software settings)	Grade 1 (at sensitivity level 2)

Compatibility	All ZP analogue systems	Environmental:	Application	Indoor use
Sensitivity settings	Level 1 58°C fixed temperature	EN60529 rating	IP32	
	Level 2 58°C rate compensated	Temp range	-10°C to +75°C	
	Level 3 75°C rate of rise	Humidity range	20% to 95% RH (non condensing)	
	Level 4 75°C fixed temperature	EMC	CE marked (EEC89/336)	
Mounting	Plugs into surface or semi recessed base	Construction:	Material	Moulded ABS
Area coverage	80m ² , subject to local codes	Dimensions	106mm (Dia) x 52mm (H) (excluding base)	
Wiring	2 core loop or spur	Height	From ceiling with base:	
Monitoring:	Open and short circuit fault. Sensor removal and device type.		ZP7-SB1 surface base	- 60mm
Indication	Alarm LED (red)		ZP7-RB1 recessed based	- 38mm
Operating voltage	16-22 volts DC	Colour	White	
Current (quiescent)	600µA	Weight	85g (without base)	
Current (alarm)	700µA			
Addressing method	7 way DIP switches in head			
Detection principle	Thermistor			

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