



PS1226.4

Based on advanced thermistor technology, the Z620 series of heat detectors, provides a reliable response to fires in areas where environmental conditions prohibit the use of smoke detection.

Z620-581 is a fixed temperature model, operating at 58°C. It is intended for applications where fluctuations of ambient temperature may be expected for example, over machinery in laundries, or factory locations where industrial processes may cause sharp temperature increases.

Z620-582 operates on the rate of rise of its ambient temperature. To increase response time, without compromising reliability, a rate compensation element enables the detector to become more sensitive to higher rates of temperature rise. Applications include general use in areas where smoke detection would be likely to produce false alarms, for example in kitchens and shower rooms.

Z620-821 is a high temperature detector suitable for use where ambient temperatures may consistently be greater than normal, for example boiler rooms and certain food processing installations. The detector is set to operate at 82°C

The Z620-581 and Z620-582 detectors meet the requirements of EN 54 Part 5 with sensitivity to grade 2 and grade 1 respectively. The high temperature version complies with EN 54 part 8 with a range 1 sensitivity.

Low profile moulding and options of either surface or recessed bases make the units ideal for both modern commercial and industrial interiors, featuring solid or suspended ceilings. A high intensity, red LED indicator on the detector moulding provides clear indication when the unit is in alarm.

For ease of removal, Z620 detectors plug into a range of base units. In order to prevent unauthorised removal, a site selectable option is provided to lock the detector into its base. Once applied the unit can only be removed by means of a special tool.

All Z620 detectors feature head out monitoring. Should a detector remain removed from its base, in addition to giving a fault signal, all devices down line of the removed unit continue to function normally.

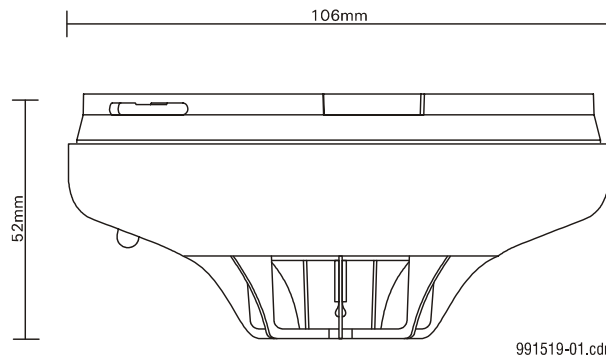


Z620

Conventional Heat Detector

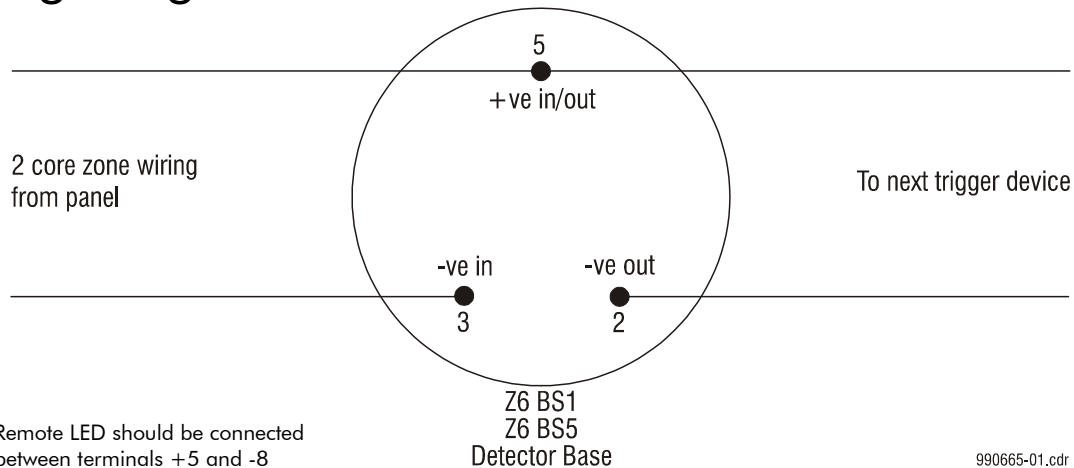
- **Complies with EN 54 Parts 5 and 8 (BS1 base)**
- **Low profile conventional design**
- **Head out continuity - all connected devices remain operational even with heads removed (BS5 base)**
- **Range of bases**
- **Plug in base with automatic locking**

Dimensions



Note: Dimensions shown without base.

Wiring Diagram



Note: Remote LED should be connected between terminals +5 and -8

Specification



Model No.	Specification	Performance	Operating voltage	15 – 30 volts DC
Z620-582-2	EN54 Pt5	Grade 1	Current (quiescent)	< 60µA
Z620-582-1	EN54 Pt5	Grade 1	Current (alarm)	Max. 50mA (limited by panel)
Z620-581-1	EN54 Pt5	Grade 2	Environmental:	
Z620-821	EN54 Pt8	Range 1	Application	Indoor use
Description	Conventional heat detector		EN60529 rating	IP32
Compatibility	All ZC conventional systems			IP55 (Z620-582-1 only)
Mounting	Plugs into surface or semi recessed base		Temp range	-20°C to +15°C below temp rating
Area Coverage	50m ² , subject to local codes		Humidity range	20% to 95% RH (non condensing) 20% to 100% RH (Z620-582-1 only)
Wiring	2 wire zonal		EMC	CE marked (EEC89/336)
Monitoring:			Construction:	
Z6-BS1	Open and short circuit by end of line resistor		Material	Moulded ABS
Z6-BS5	Open and short circuit and head out by active end of line unit (ZC-AEOL)		Dimensions	106mm (dia) x 52mm (h) (excluding base)
Indication	Alarm LED (red)		Height	BS1/BS5 surface base – 60mm BR1/BR5 recessed base – 38mm (from ceiling with base)
Operating temp	Z620-582-2 - 58°C (rate compensated) Z620-582-1 - 58°C (rate of rise) Z620-581-1 - 58°C (fixed temperature) Z620-821 - 82°C (fixed temperature)		Colour	White
			Weight	82g (without base)

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