

## Z620

### Conventional heat detector

#### Advanced thermistor design

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.

#### High temperature version

Z620-771 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 77°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 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.

#### Twist and lock base

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.



#### Standard Features

- 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

### Specifications

Z620-581-3	Specification EN54 Pt5 Grade 2 - fixed temperature
Z620-582-3	Specification EN54 Pt5 Grade 1 - rate of rise
Z620-771-3	Specification EN54 Pt5 Range 1 - fixed temperature
Description	Conventional heat detectors
Compatibility	All ZC conventional systems
Mounting	Plugs into surface or semi recessed base
Area Coverage	50m <sup>2</sup> , subject to local codes
Wiring	2 wire zonal
Monitoring	Z6-BS1 base, open and short circuit by EOL resistor. Z6-BS5 base, open and short circuit and head out by active EOL unit
Indication	Alarm LED (red)
Operating threshold	Z620-581 - 58°C, Z620-582 - 58°C, Z620-771 - 77°C
Operating voltage	15 - 30 volts DC
Current	<60uA quiescent, max 50mA alarm (limited by panel)
Application	Indoor installation
EN60529 rating	IP32, IP55 Z620-582-1 only
Temperature range	-20°C to +15°C below temp rating
Humidity range	20% to 95% RH (non condensing), 20% to 100% RH (Z620-582-1 only)
EMC	CE marked (IEC89/336)
Material	Moulded ABS
Dimensions	106mm (dia) x 52mm (h) (excluding base)
Height (from ceiling with base)	BS1/BS5 surface - 60mm BR1/BR5 recessed - 38mm
Colour	White
Weight	82g (without base)
Publication No	PS1226

### Ordering Information

Part No.	Description
Z620	Conventional heat detector

Comsec Protection Systems.  
 26 Stadium Business Park, Dublin, D11 FY81  
 Tel +353 1 8853008 Email info@comsec.ie www.comsec.ie

