

# H Series

## Key Features

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Self re-setting

Two wire supervised circuit

Approved by marine classification authorities

Compatible with other THORN low voltage equipment

Special versions can be used in any Zone 1 or Zone 2 environment

Grade 3 to European Standard EN54 Part 5 1977.

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# Fixed Temperature Heat Detectors



The H600 and H900 range of fixed temperature heat detectors are designed to operate at 60°C and 90°C respectively. They are particularly suited to areas where rapid changes in temperature and /or high areas where rapid changes in temperature and/or high ambient temperature exist, together with unsuitable environmental conditions for smoke detectors.

This makes the detectors ideally suited for galleys, laundries, etc. The H600 and H900 series of detectors contains a heat sensitive element which changes state at a pre-determined temperature, thereby closing an electrical contact. The detectors do not latch in alarm, and will reset to normal (quiescent) state when the ambient temperature drops.

## Technical Information

There are three different configurations of the detector available at both temperature settings as follows:

1. H600/H900 have no alarm LED indicating facility.
2. H601/H901 have the facility to drive remote LED alarm indicator.
3. H602/H902 have an integral LED alarm indicator fitted into the base of the detector.

Special versions of the above six detectors are available for use in Zone 1 and Zone 2 hazardous areas. These units are fitted with a 390 ohm 2.5 watt current limiting resistor. This resistor enables the units to be classed as simple apparatus which complies with BS 5345 Part 4 1977 clause 6.3.3.

No BASEEFA certification is required for their use on intrinsically safe circuits in Zone 1 or Zone 2 environments. However, an appropriate certified diode safety barrier system must be used between the H series detectors and the fire detection control equipment.

There are also restrictions on cable types and lengths. The detail parameters will depend on the type of barrier used. System 601 [Cat.(1a)] is a certified system incorporating the simple apparatus. Further details of the System 601 are given in the relevant technical publications.

### Technical Information (Detectors)

#### Electrical

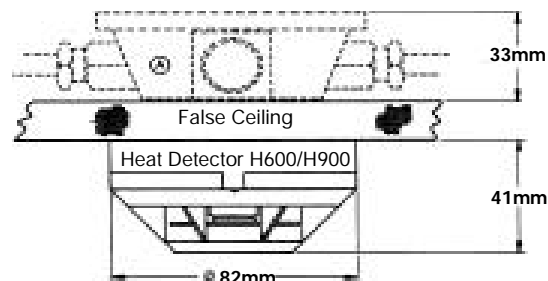
|                    |  |
|--------------------|--|
| Operating Voltage: | Up to 24 V dc                                  |
| Quiescent Current: | Zero   |
| Alarm Current:     | Limited by internal 390 ohm or 50 ohm resistor |

#### Mechanical

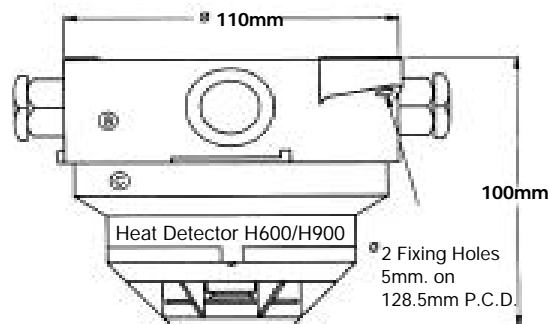
|             |                 |
|-------------|-----------------|
| Dimensions: | 82mm dia x 41mm |
| Weight:     | 73 gm           |
| Material:   | Cycloc ABS      |

#### Environmental

|                              |  |
|------------------------------|--|
| Operating temperature range: | -20°C to 100°C<br>up to 100% RH (Non-condensing) |
| Alarm temperature H6XX:      | 60°C   |
| H9XX:                        | 90°C   |



Ceiling mounting



Deckhead mounting

#### Ceiling mounting

Terminal base may be ceiling mounted as shown with or without a gland back box mounted above the ceiling (as shown by the dotted line).

#### Deckhead mounting

This mounting is specifically designed for steel/solid deckhead and gives the level of mechanical and environmental protection required in these areas.

Four 20mm (knock outs) are provided for cable entry.

### Technical Data (Mountings)

#### Mechanical

|               |                                   |
|---------------|-----------------------------------|
| Terminations: | Max cable size 2.5mm <sup>2</sup> |
| Dimensions:   | See drawing                       |

| Item | Unit               | Weight | Material            |
|------|--------------------|--------|---------------------|
| A    | Plastica Gland Box | 60gm   | Noryl               |
| B    | DHM7               | 230gm  | Glass Polyester DMC |
| C    | DHMA               | 60gm   | Cycloc ABS          |

Two main types of detector mountings are available for the H Series of detectors.

## Ordering Information

| Product Ref           | Description  | Product Code |
|-----------------------|--|--------------|
| <b>Mountings</b>      |  |              |
| A                     | Plastic Gland Box (if required)                                    | 400.001.004  |
| B + C                 | DHM8 (including 2 x 20 mm glands)                                  | 517.001.130  |
| <b>60 C Detectors</b> |  |              |
| H600                  | Fixed Temp Grade 1   | 516.014.017  |
| H601                  | Fixed Temp Grade 1 (Remote LED Ind.)                               | 516.014.021  |
| H602                  | Fixed Temp Grade 1 (Integral LED Ind.)                             | 516.014.019  |
| H604                  | Fixed Temp Grade 1 (Integral LED Ind.) Intrinsically Safe c/w DHM8 | 516.014.025  |
| <b>90 C Detectors</b> |  |              |
| H900                  | Fixed Temp Grade 1   | 516.014.018  |
| H902                  | Fixed Temp Grade 1 (Integral LED Ind.)                             | 516.014.020  |
| H904                  | Fixed Temp Grade 1 (Integral LED Ind.) Intrinsically Safe c/w DHM8 | 516.014.025  |

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