

PERTRONIC INDUSTRIES LTD

DATASHEET

Conventional Indicating Heat Detector,

V-Series Special Applications: Encapsulated Alkaline Resistant



Overview

The Pertronic Encapsulated Indicating Heat Detector is an NZS 4512:2010 compliant fixed temperature heat detector.

It has been designed such that the electronics are resistant to alkaline environments although the metal heat collector may show signs of corrosion after prolonged exposure.

The detector is available in two temperature ranges (Blue: 57 °C and Yellow: 77 °C).



Pertronic Encapsulated Indicating Heat Detector, Alkaline Resistant

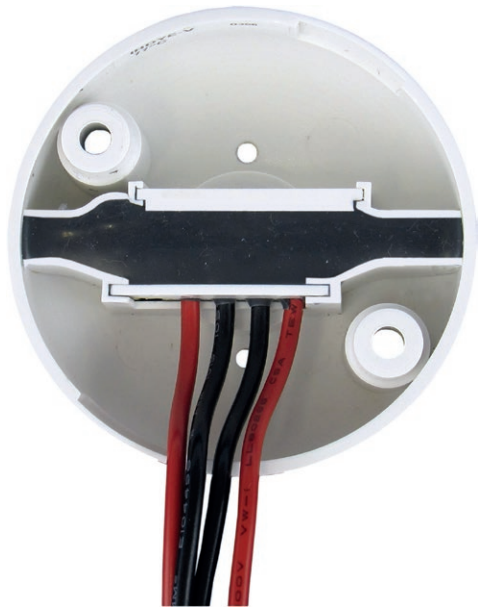
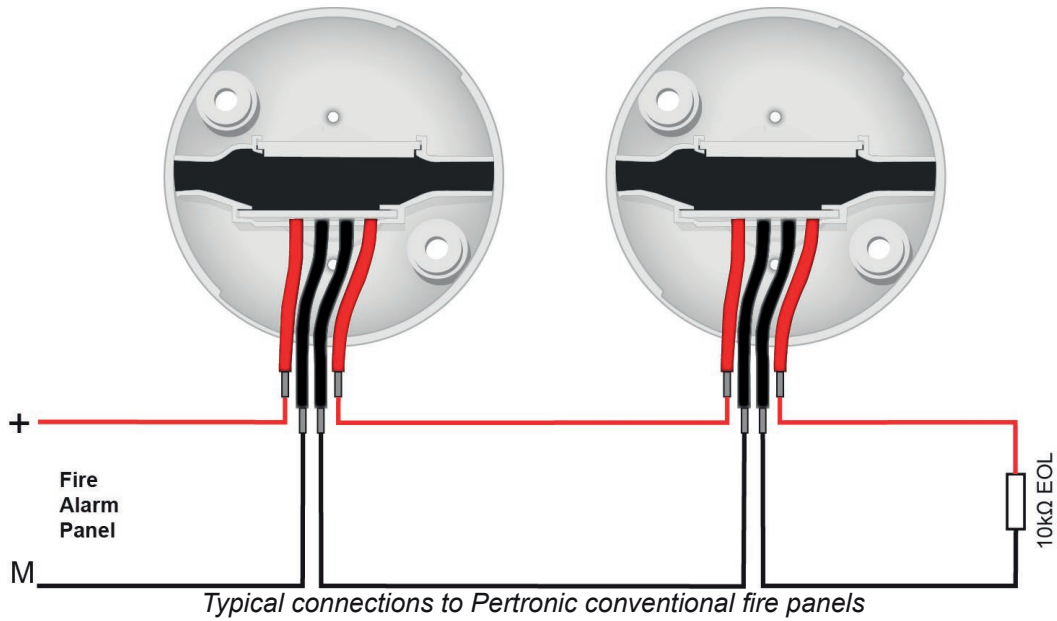
Features

- » Fast response, fixed temperature fire alarm heat detector
- » Resistant to alkaline cleaning solutions containing < 3% Potassium Hydroxide and/or < 3% Sodium Hypochlorite
- » Coloured differently from standard detectors for easy identification
- » Resistant to false activation caused by vibration or other transient impulses
- » Complies fully with NZS 4512:2010
- » Bi-directional circuit connection leads - either 'Red' lead may be connected to the fire panel
- » Vertically mounted PCB for improved resistance against condensation and water damage
- » Conformally coated and fully encapsulated PCB
- » Alarm condition clamps the circuit voltage to 2.2 V
- » Red LED indication: the LED latches ON when the thermo-mechanical sensor activates
- » De-powering the heat detector resets the LED
- » Integral reverse polarity yellow LED for easy detection of wiring faults
- » Reverse polarity connection causes "Hi Defect" fault warning on pertronic panels

Specification

Operating Voltage	12 to 24 Vdc
Quiescent Current	0.01 mA
Alarm Current	Panel must limit to less than 25 mA
Operating Temperature	0 to +80 °C
Operating Environment	10 to 95% RH (non-condensing)
Dimensions (Diameter x Height mm)	66 x 36 mm
Weight	71 g
Material	Polycarbonate
Colour	Light Grey Resene - Half House White

Heat Detector Connections



Rear view
Encapsulated Indicating Heat Detector

Compatibility

Pertronic Indicating Heat Detectors are compatible with the following NZS 4512-compliant Pertronic products

Product	Software Version
F1	v2.30 & above
F1-2W	v9.04 & above
F4	v2.26 & above
F4-2W	v9.00 & above
F16	v7.0 & above
F16e	v1.10N & above
Apartment Module	V1.0 & above
Loop Responder	v3.00N & above
Multi-Function Loop Responder	All

Ordering Information & Notes

Product Code	Description
IHDBEAR-V	Encap. Indicating Heat Detector Alkaline Resistant Blue 57 °C V version
IHDYEAR-V	Encap. Indicating Heat Detector Alkaline Resistant Yellow 77 °C V version

The information in this document must not be treated as partial or complete instructions for the design, construction, installation, commissioning, or maintenance of fire detection, fire alarm, or building evacuation systems. Fire and evacuation systems must be designed and installed by properly qualified persons, in accordance with all regulatory requirements.

Unless explicitly stated otherwise, this document provides typical specifications and nominal dimensions. Actual product performance and dimensions may vary.

All information in this document is subject to change. Please consult Pertronic Industries or visit our web site for up to date information.

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