

# PERTRONIC INDUSTRIES LTD

## DATASHEET

### Conventional Indicating Heat Detector (V Series)

Standard (IHDB-V) (IHDY-V)

Encapsulated (IHDBE-V) (IHDYE-V)



## Overview

The Pertronic Indicating Heat Detector is a conventional heat detector with a fixed (static) temperature threshold, for use in NZS 4512:2010-compliant fire detection and alarm systems.

This datasheet covers the standard and encapsulated types of heat detector. Each of these types is available in two versions:

- » 57 °C temperature threshold (blue dot)
- » 77 °C temperature threshold (yellow dot).

Please refer to our website for information on other types of heat detector, including remote indicator, remote kit, and alkaline wash resistant types.



*Pertronic Conventional Indicating Heat Detector  
(V Series)*

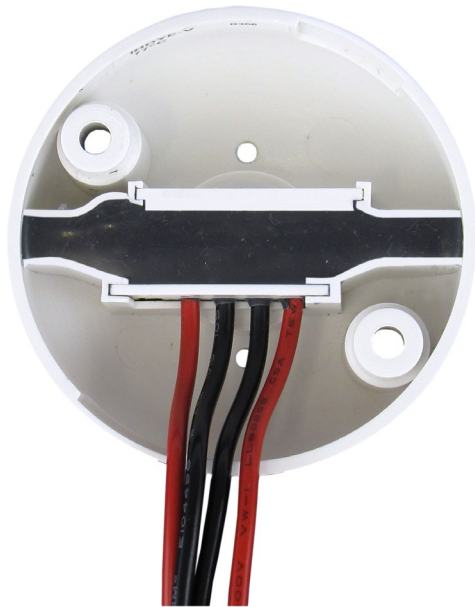
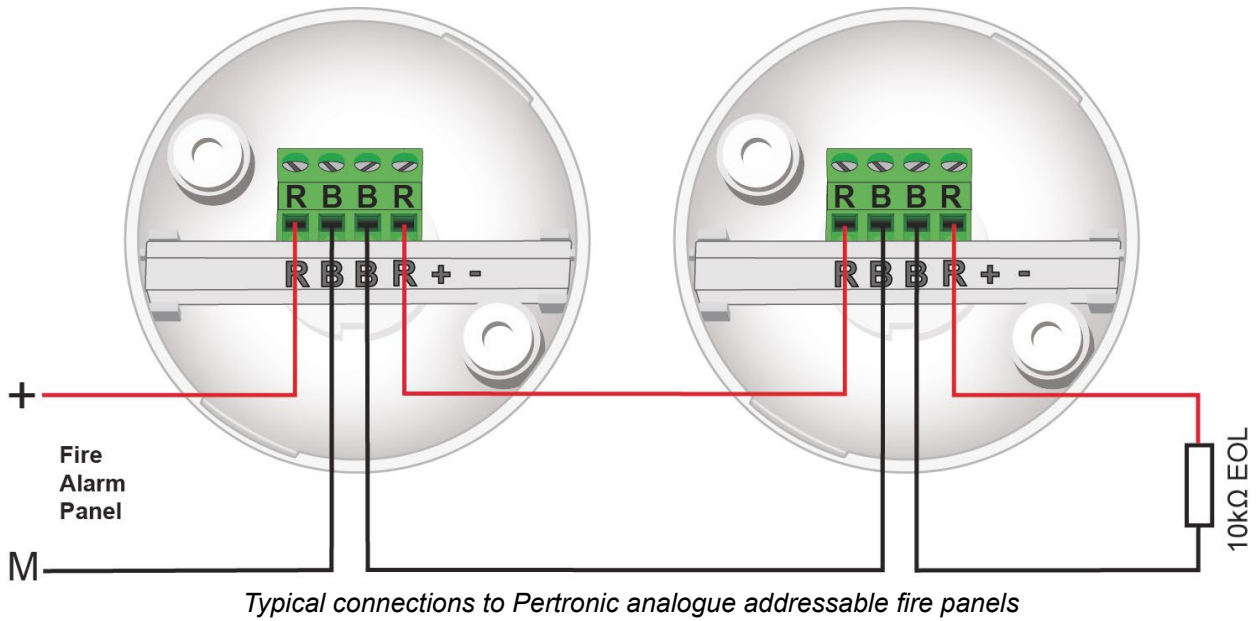
## Features

- » Fast response, fixed temperature heat detector
- » Resistant to false activation caused by vibration or other transient impulses
- » Independently tested and certified compliant with NZS 4512:2010
- » Terminals accept up to 1.5 mm<sup>2</sup> cable
- » Bi-directional circuit connection terminals
- » Vertically mounted PCB with protective cover for improved resistance against condensation and water damage
- » 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
- » Compatible with Pertronic Loop Responder, Apartment Module and fire panels

## Specification

<b>Operating Voltage</b>	12 to 24 Vdc	
<b>Quiescent Current</b>	0.01 mA	
<b>Alarm Current</b>	Panel must limit to less than 25 mA	
<b>Operating Temperature</b>	0 to +80 °C	
<b>Operating Environment</b>	10 to 95% RH (non-condensing)	
<b>Dimensions (Diameter x Height mm)</b>	66 x 36 mm	
<b>Weight</b>	<b>Heat Detector</b>	36 g
	<b>Encapsulated Heat Detector</b>	71 g
<b>Material</b>	Polycarbonate	
<b>Colour</b>	White	

## Heat Detector Connections



Encapsulated Indicating Heat Detector, recommended for wet environments

### 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	v8.0 & above
F16e	v1.10N & above
Apartment Module	V1.0 & above
Loop Responder	v3.00N & above
Multi-Function Loop Responder	All

### Ordering Information

Type	Product Code	Description
Standard	IHDB-V	Indicating Heat Detector, Blue : 57 °C
	IHDY-V	Indicating Heat Detector, Yellow : 77 °C
Encapsulated	IHDBE-V	Encapsulated Indicating Heat Detector, Blue : 57 °C
	IHDYE-V	Encapsulated Indicating Heat Detector, Yellow : 77 °C

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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