

## Conventional Encapsulated Indicating Heat Detector (V series Special Applications)

### Head Office

#### Wellington

PO Box 35-063  
Naenae  
Lower Hutt 5041  
17 Eastern Hutt Rd  
Wingate  
Lower Hutt 5019  
Tel (04) 567-3229  
Fax (04) 567-3644

www.pertronic.co.nz

sales@pertronic.co.nz  
tech@pertronic.co.nz

#### Auckland Office

PO Box 15-867  
New Lynn  
Auckland 0640  
359 Onehunga Mall  
Onehunga  
Auckland 1061  
Tel (09) 633-0226  
Fax (09) 633-0228



ISO 9001: 2000

International  
Standards  
Certifications  
QAC/R61/0051

### Product Overview:

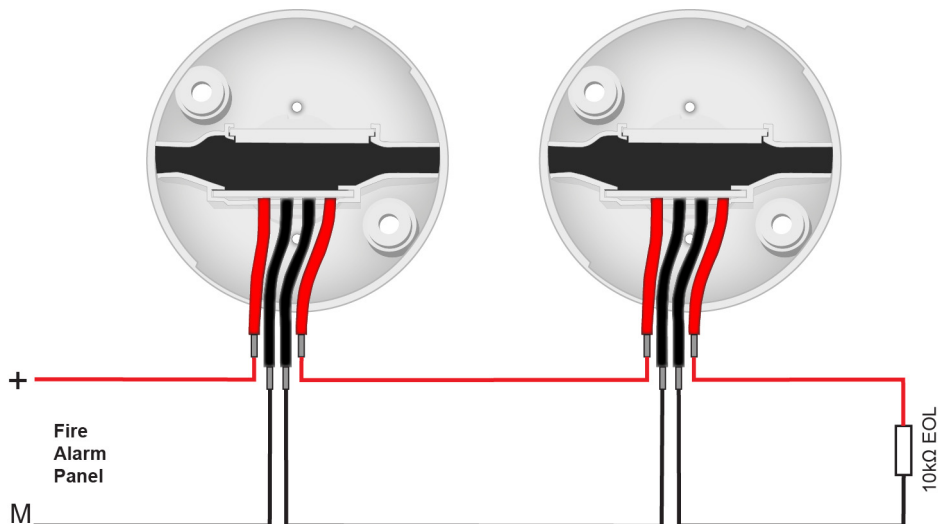
The Pertronic Encapsulated Indicating Heat Detector is a stylish NZS4512:2010 compliant fixed temperature heat detector. It has been designed such that the electronics are resistant to alkaline environments although the metal heat collector may show signs of corrosion after prolonged exposure. The detector is available in two temperature ranges (Blue: 57°C and Yellow: 77°C).

- ▶ 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 NZS4512:2010.
- ▶ 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 2.2V
- ▶ 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:				
<b>Electrical:</b>	<b>Operating Voltage</b> 12 to 24Vdc	<b>Quiescent Current</b> 0.01 mA	<b>Alarm Current</b> Panel must limit to less than 25mA	
<b>Environmental:</b>	<b>Operating Temperature Range</b> 0°C to +80°C			
<b>Mechanical:</b>	<b>Dimension</b> (Diameter x Height ) 66 x 36 mm	<b>Weight</b> 71 gms	<b>Material</b> Polypropylene	<b>Colour</b> Light Grey Resene - Half House White
Encap Heat Det				

### Heat Detector Connections:





**Back View**

<b>Compatibility:</b>	Indicating Heat Detectors are compatible with the following products:		
Product	Detector Hardware Version	Panel Software Version	Release Date
F1	v2.6 & above	v2.3 & above	November 2003
F1-2W	v2.6 & above	v9.04 & above	March 2007
F4	v2.6 & above	v2.26 & above	November 2003
F4-2W	v2.6 & above	v9.0 & above	March 2007
F16	v2.6 & above	v7.0 & above	November 2003
F16e	v2.6 & above	v1.10N & above	June 2004
Loop Responder	v2.6 & above	v3.00N & above	May 2004
Apartment Module	v2.6 & above	V1.0 & above	November 2006

<b>Product Codes:</b>		
Code	Description	NZFPA Listing No.
IHDBEAR-V	Encapsulated Indicating Heat Detector Alkaline Resistant, Blue : 57°C	TBA
IHDYEAR-V	Encapsulated Indicating Heat Detector Alkaline Resistant, Yellow : 77°C	TBA

NZ Patent 584714  
 NZ Patent 585677  
 Registered Design No. 413539

**PERTRONIC INDUSTRIES LTD**

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