Conventional Indicating Heat Detector (V series)

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QUALITY ASSURED COMPANY

ISO 9001: 2000

International
Standards
Certifications
QAC/R61/0051

Product Overview:

The Pertronic Indicating Heat Detector is a stylish NZS 4512:2003 and NZS4512:2010 compliant fixed temperature heat detector. Available in two temperature ranges (Blue: 57°C and Yellow: 77°C).

- Fast response, fixed temperature Fire Alarm Heat Detector.
- Resistant to false activation caused by vibration or other transient impulses.
- Complies fully with NZS4512:2003 and NZS4512:2010.
- Terminals accept up to 1.5mm^2 cable.
- Bi-directional circuit connection terminals.
- Vertically mounted PCB with protective cover for improved resistance against condensation and water damage.
- Conformally coated 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.
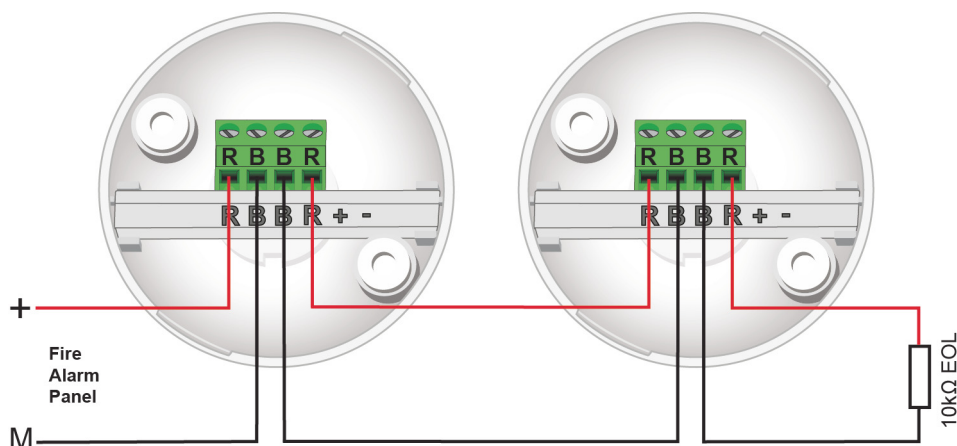- Reverse polarity connection causes "Hi Defect" fault warning on Pertronic panels.

Available in a variety of configurations:

- Standard
- Encapsulated for high humidity environments
- Remote LED Indicator – refer to brochure '0722-Indicating Heat Detector-Remote LED'.
- Remote Kit – refer to brochure '0721-Indicating Heat Detector Kits'.

NOTE: These detectors should not be used in chemically aggressive environments, including areas where alkaline based cleaning agents are utilised. For such installations, use the IHDBEAR-V (blue) or IHDYEAR-V (Yellow) alkaline resistant models. See separate datasheet for details on these products.

Specification:

Electrical:	Operating Voltage 12 to 24Vdc		Quiescent Current 0.01 mA	Alarm Current - panel must limit to less than 25 mA
Environmental:	Operating Temperature Range 0 ^{o}C to +80 ^{o}C		Humidity (non-condensing) 10 to 90% RH for std. detector	
Mechanical: - Heat Detector - Encaps Heat Det	Dimension (Diameter x Height mm) 66 x 36	Weight 36 gms 71 gms	Material Polycarbonate Polycarbonate	Colour White White

Heat Detector Connections:

Fire Alarm Panel

10kΩ EOL

Encapsulated Indicating Heat Detector: recommended for 'high humidity' environments.

Compatibility:	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

Product Codes:		
Code	**Description**	**NZFPA Listing Number**
Standard		
IHDB-V	Indicating Heat Detector, Blue : 57°C	PI/238
IHDY-V	Indicating Heat Detector, Yellow : 77°C	PI/239
Encapsulated		
IHDBE-V	Encapsulated Indicating Heat Detector, Blue : 57°C	PI/242
IHDYE-V	Encapsulated Indicating Heat Detector, Yellow : 77°C	PI/243
Alkaline Resistant		
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