PERTRONIC INDUSTRIES

INSTALLATION DATASHEET
Indicating Thermodisc Heat Detector Kit
IHDBK-57C, IHDBLKK-125C

Overview

The Pertronic Indicating Thermodisc Heat Detector Kit provides heat detection in areas with harsh environmental conditions such as high ambient temperature.

The detector consists of a Heat Sensor Unit, which is installed in the harsh environment, and an Indicator Unit, which must be installed away from the harsh environment. The Heat Sensor Unit contains a bi-metallic heat sensor and is rated for normal operation at temperatures up to 130 °C. The Indicator Unit is electrically identical to our Thermistor Heat Detectors.

The kit includes three metres of high temperature cable, pre-terminated to the Heat Sensor and Indicator Units.

The Pertronic Indicating Thermodisc Heat Detector Kit is available in two versions:

- IHDBLKK-125C (Black), with 125 °C static (fixed) alarm threshold
- IHDBK-57C (Blue), with 57 °C static (fixed) alarm threshold
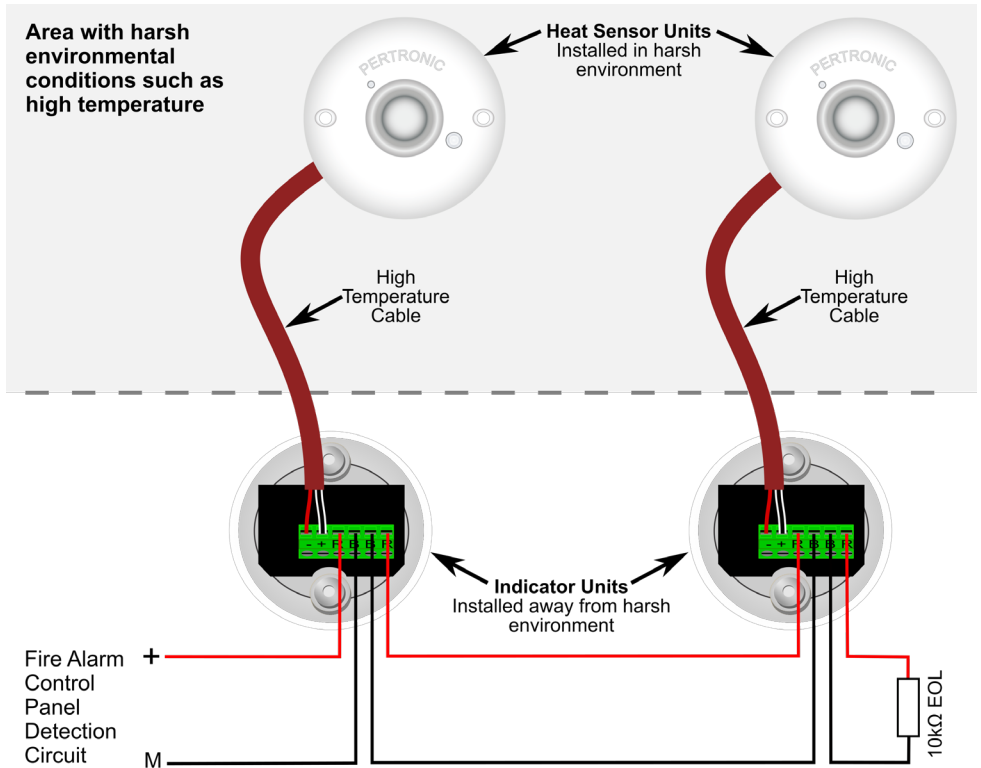
Features

- Red LED indication on Indicator Unit latches ON when an alarm condition is detected (De-powering the detector resets the red LED indication)
- Supplied complete with 3 metres of heat resistant cable
- Indicator Unit detection circuit terminals accept up to 1.5 mm² cable
- Yellow LED indicates reverse polarity connection
- Bi-directional Line In + Line Out terminals on Indicator Unit. Either red terminal may be connected to the fire panel.
- Conformally-coated PCBs
- Independently tested and certified compliant with NZS 4512:2010

Specification

	Indicator Unit	Heat Sensor Unit
Operating Voltage	12 Vdc or 24 Vdc (nominal)	
Quiescent Current	11 µA	
Alarm Current	Control panel limits to <25 mA	
Weight (incl. cable)	310 g	
Material	Polycarbonate	
Colour	White	
	Indicator Unit	**Heat Sensor Unit**
Dimensions	66 mm diameter x 32 mm high	66 mm diameter x 36 mm high
Operating Temperature	0 °C to +80 °C	0 °C to +130 °C
Humidity	10 to 90% RH (non-condensing)	

Connections

Area with harsh environmental conditions such as high temperature

Heat Sensor Units Installed in harsh environment

High Temperature Cable

High Temperature Cable

Indicator Units Installed away from harsh environment

Fire Alarm Control Panel Detection Circuit

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10kΩ EOL

Compatibility & Circuit Capacity

A total of up to fifty IHDBK-57C detectors, IHDBLKK-125C detectors, and Thermistor Heat Detectors may be connected to the conventional detection circuit of any current version Pertronic fire alarm control panel or module. These detectors are not compatible with fire systems to NZS 4512:1997 or earlier editions of NZS 4512. Please refer to appropriate technical manual for details.

Ordering Information

Product Code	Description
IHDBK-57C	Indicating Thermodisc Heat Detector Kit Blue 57C
IHDBLKK-125C	Indicating Thermodisc Heat Detector Kit Black 125C