



Linear Heat Detection 85 C, 185 F Nominal (H8045N)

The simple and proven technology of digital Linear Heat Detection (LHD) cable, makes it a product of choice for difficult and challenging applications where other technologies struggle to work.

With its ease of installation and low maintenance it also provides a cost effective solution where project expenditure requires to be kept at a minimum.

The sensing cable is formed from a pair of twisted steel conductors each with temperature sensitive insulation and then an overall Nylon outer sleeve. When the temperature sensitive insulation reaches its predetermined alarm temperature the two conductors short together providing the digital or switched signal.

The cable can be connected to any unit capable of monitoring a switched signal, i.e. Conventional fire panel, addressable switch monitor unit or PLC.

The nylon outer sleeve of the H8045N offers good chemical and water resistance, allowing it to be deployed in harsh and dirty environments.

FEATURES

- Simple digital switch operation
- Continuous sensing along the total length of the element
- Fixed alarm temperature. Unaffected by changes in ambient temperature
- Compatible with switch monitoring units and conventional alarm panels
- Suitable for use in Hazardous areas using safety barriers
- Chemical & water resistant
- Rugged and durable construction
- Simple maintenance free installation
- Small diameter and bend radius
- FM Approved

APPLICATIONS

- Conveyors / bearing protection
- Escalators, moving walkways
- Petro-chemical storage tanks, rim seal protection
- Cable tunnel / tray protection
- Road and rail tunnels
- Road and rail motor compartments
- Electrical switch gear & transformers
- Refrigerated rooms and cold stores
- Building exteriors under eaves
- Motor and pump overheat detection
- Dirty and dusty environments

SPECIFICATIONS

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Alarm Temperature	85 C	185 F
Max Ambient Temperature	45 C	113 F
Min Operating Temperature	-40 C	-47 F
Min Installation Temperature	-15 C	5 F

MECHANICAL

Outside Diameter	3.35 mm
Colour	Black
Number of Cores	2
Core Diameters	0.9 mm
Core Colours	Black & Red
Min. Bend Radius	50 mm (Cold store 100 mm)
Weight	18 kg/km on the reel (weight of reel typically 2 kg)

ELECTRICAL

Resistance	100 ohms/km max @ 20 C
Capacitance	45 pF/m to 130 pF/m
Inductance	0.74 uH/m to 1.3 uH/m
Voltage Rating	110 Vdc 1 amp
Time to detect small flame	5 sec (flame touching)

APPROVALS

FM 3210

PART NO

DESCRIPTION

55100-085	H8045N sensing cable 85 C alarm temperature - black nylon outer sleeve (ordered by the metre) Optional
52100-001	DLI-2K Digital location interface 2 km
52100-002	DLI-10K Digital location interface 10 km
52101-001	DIM Digital Interface Module DIN Rail Mounted
53000-001	Portable Test Oven 1 m