

# H8045N

LINEAR HEAT DETECTION (LHD)  
(85°C, 185°F Nominal)

# LINESENSE

Fire Detection Ltd

[www.linesense.co.uk](http://www.linesense.co.uk)



## General

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.

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## Specifications.

Alarm temperature :	85°C	185°F
Max amb temperature :	45°C	113°F
Min operating temperature :	-40°C	-47°F
Min installation temperature :	-15°C	5°F

**Time to detect small flame :** 5 sec (Flame touching)

## Mechanical

Cable diameter :	3.40mm ±0.15mm
Sheath colour :	Black
Number of cores:	2
Core colours:	Red and Black.
Core diameters :	1.5mm ±0.03mm
Conductor diameter :	1/0.9mm Tinned Copper Clad Steel (TCCS) .
Minimum bend radius :	50mm (Cold store 100mm)
Weight :	18Kg/Km on the reel. (weight of reel typically 2Kg)

## Electrical

Resistance :	100 ohms / Km max @ 20°C
Capacitance :	45 pF/m to 130 pF/m
Inductance :	0.74 µH/m to 1.3 µH/m
Voltage rating :	110vdc 1amp

**Approvals :** FM 3210

## Ordering Information

Part Number	Description
51100-085	H8045N sensing cable 85°C Alarm temperature Black Nylon outer sleeve. (ordered by the meter)