

H8028

LINEAR HEAT DETECTION (LHD)
(105°C, 221°F Nominal)

LINESENSE

Fire Detection Ltd

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 it's 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 PVC outer sleeve. When the temperature sensitive insulation reaches it's 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 PVC outer sleeve of the H8028 offers good UV resistance allowing it to be deployed in external applications.



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.
- UV resistant PVC outer sleeve.
- Rugged and durable construction.
- Simple maintenance free installation.
- Small diameter and bend radius.
- FM Approved,

Applications

- Conveyors / bearing protection
- Escalators, moving walkways.
- 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 :	105°C	221°F
Max amb temperature :	70°C	158°F
Min operating temperature :	-30°C	-22°F
Min installation temperature :	0°C	32°F

Time to detect small flame : 12 sec (Flame touching)

Mechanical

Cable diameter :	4.05mm ±0.10mm
Sheath colour :	Black
Number of cores:	2
Core colours:	Red and Black.
Core diameters :	1.4mm ±0.03mm
Conductor diameter :	1/0.9mm Tinned Copper Clad Steel (TCCS) .
Minimum bend radius :	50mm (Cold store 100mm)
Weight :	25Kg/Km on the reel. (weight of reel typically 2Kg)

Electrical

Resistance :	100 ohms / Km @ 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

51100-105

Description

H8028 sensing cable 105°C Alarm temperature
Black PVC outer sleeve. (ordered by the meter)