H9650
LINEAR HEAT DETECTION (LHD)
(240°C, 464°F Nominal)

LINESENSE
Fire Detection Ltd

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 Fluoropolymer outer sleeve.
- Rugged and durable construction.
- Simple maintenance free installation.
- Small diameter and bend radius.
- FM Approved

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 Fluoropolymer 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 Fluoropolymer outer sleeve of the H9650 offers excellent chemical and water resistance, allowing it to be deployed in harsh and dirty environments.

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.

FM APPROVED

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Specifications.

Alarm temperature :	240°C	464°F
Max amb temperature :	200°C	392°F
Min operating temperature :	-50°C	-58°F
Min installation temperature :	-20°C	-4°F

Time to detect small flame :   20 sec (Flame touching)

Mechanical

Cable diameter :	3.00mm ±0.10mm
Sheath colour :	White
Number of cores:	2
Core colours:	White and Black.
Core diameters :	1.3mm ±0.03mm
Conductor diameter :	1/0.9mm Tinned Copper Clad Steel (TCCS) .
Minimum bend radius :	50mm (Cold store 100mm)
Weight :	24Kg/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

Life Expectancy :   20 Years

Ordering Information

Part Number	Description
51100-240	H9650 sensing cable 240°C Alarm temperature
	White Fluoropolymer outer sleeve. (ordered by the meter)

	Optional
52100-001	DLI-2K Digital Location Interface 2Km
52100-002	DLI-10K Digital Location Interface 10Km
52101-001-028	DIM Digital Interface Module
52101-001	DIM Digital Interface Module
53000-001	Portable test oven 1m