# eurotech®
## fire systems limited

### Linear Heat Detection  240 C, 464 F Nominal (H9650)

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.

## 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

## 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 | 240 C | 464 F |
| Max Ambient Temperature | 200 C | 392 F |
| Min Operating Temperature | -50 C | -58 F |
| Min Installation Temperature | -20 C | -4 F |

**MECHANICAL**

| | |
|---|---|
| Outside Diameter | 3.55 mm |
| Colour | White |
| Number of Cores | 2 |
| Core Diameters | 0.9 mm |
| Core Colours | Black & White |
| Min. Bend Radius | 50 mm (Cold store 100 mm) |
| Weight | 24 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 | 20 sec (flame touching) |

**APPROVALS**

FM 3210

| PART NO | DESCRIPTION |
|---|---|
| 55100-085 | H9650N sensing cable 240 C alarm temperature - white fluoropolymer 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 |

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