

# H8069

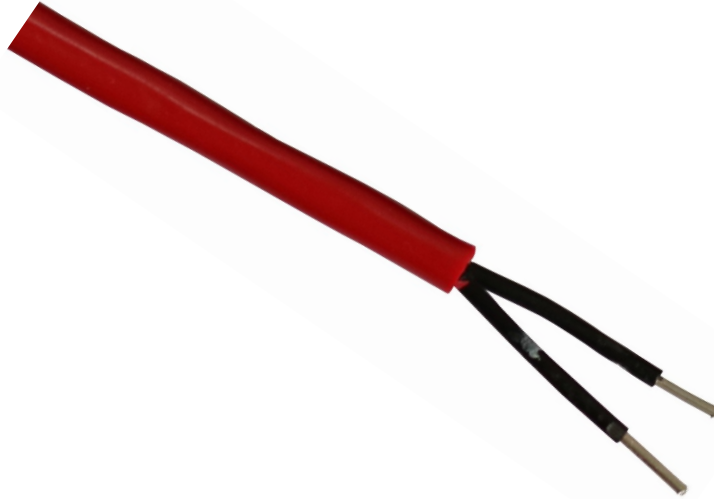
LINEAR HEAT DETECTION (LHD)  
(176°C, 349°F Nominal)



# ProDetec

Measure . Prevent . Protect . Control

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## 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 H8069 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                                    |
| 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 :            | 176°C | 349°F |
| Max amb temperature :          | 105°C | 221°F |
| Min operating temperature :    | -40°C | -40°F |
| Min installation temperature : | 0°C   | 32°F  |

## Mechanical

|                       |  |
|-----------------------|--|
| Outside Diameter :    | 4.35mm   |
| Colour :              | Red  |
| Number of cores :     | 2  |
| Core diameters :      | 0.9mm  |
| Core colours:         | Black and Black/White.                                   |
| Minimum bend radius : | 50mm (Cold store 100mm)                                  |
| Weight :              | 21.0Kg/Km on the reel.<br>(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           |

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

**Approvals :** FM 3210

## Ordering Information

### Part Number

51100-176

### Description

H8069 sensing cable 176°C Alarm temperature  
Red PVC 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

DIM Digital Interface Module DIN rail mounted.

53000-001

Portable test oven 1m