

LD Series

Linear Heat Detection Cable



Industrial Application Equipment

GENERAL

System Sensor LD Series Fixed Temperature Linear Heat Detection Cable range consists of a twisted pair of extremely low resistance tri-metallic conductors, sheathed in new advanced thermal polymers. These polymers are chemically engineered to breakdown at specific fixed temperatures allowing the twisted conductors to make contact and initiate an alarm at the control panel without any calibration for changes in ambient temperatures.

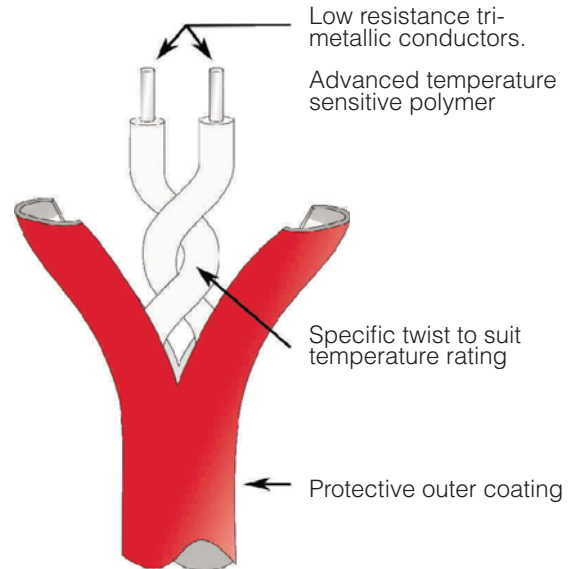
The factor in determining which detection temperature wire to use is the maximum ambient temperature of the hazard area or equipment to be protected. The proper temperature model must be selected to provide the fastest alarm response to a potential fire condition without creating false alarm conditions. In the selection process its critical to consider the hazard areas highest potential ambient temperature. It is a co-axial cable which exerts a defined change in electrical resistance of internal polymers when subjected to changes in surface temperatures. System monitoring through an associated electronic interface unit provides fault indication of open and short circuit conditions on the sensor cable.

This type of detection is widely used in industrial, petrochemical, refinery and power generation plants for protection of the following areas;

- Cabel Trays
- Conveyors
- Tunnels & pipelines
- Refrigerated storage
- Warehouse/rack storage
- Power equipment: switchgear, transformers, motors and fans

FEATURES

- Continuous sensitivity along length of cable.
- Withstands severe environmental conditions.
- Easy installation and maintenance
- Compatible with NOTIFIER intelligent modules and conventional zone interfaces for connection to fire alarm control panels.
- Available in a variety of lengths, cable coatings and alarm temperatures.



Linear Heat Detection cable construction



LHD cable roll



Junction Box

PRODUCT LINE INFORMATION

GENERAL PURPOSE CABLE:

68°C (155°F) Alarm Temperature

FG-59-006: LD-68-155(100m) - 100m roll
FG-59-007: LD-68-155(200m) - 200m roll
FG-59-008: LD-68-155(500m) - 500m roll
FG-59-009: LD-68-155(1000m) - 1000m roll

78°C (172°F) Alarm Temperature

FG-59-010: LD-78-172(100m) - 100m roll
FG-59-011: LD-78-172(200m) - 200m roll
FG-59-012: LD-78-172(500m) - 500m roll
FG-59-013: LD-78-172(1000m) - 1000m roll

88°C (190°F) Alarm Temperature

FG-59-014: LD-88-190(100m) - 100m roll
FG-59-015: LD-88-190(200m) - 200m roll
FG-59-016: LD-88-190(500m) - 500m roll
FG-59-017: LD-88-190(1000m) - 1000m roll

105°C (220°F) Alarm Temperature

FG-59-018: LD-105-220(100m) - 100m roll
FG-59-019: LD-105-220(200m) - 200m roll
FG-59-020: LD-105-220(500m) - 500m roll
FG-59-021: LD-105-220(1000m) - 1000m roll

HARSH-AREA CABLE:

68°C (155°F) Alarm Temperature

FG-59-022: LDN-68-155(100m) - 100m roll
FG-59-023: LDN-68-155(200m) - 200m roll
FG-59-024: LDN-68-155(500m) - 500m roll
FG-59-025: LDN-68-155(1000m) - 1000m roll

78°C (172°F) Alarm Temperature

FG-59-026: LDN-78-172(100m) - 100m roll
FG-59-027: LDN-78-172(200m) - 200m roll
FG-59-028: LDN-78-172(500m) - 500m roll
FG-59-029: LDN-78-172(1000m) - 1000m roll

88°C (190°F) Alarm Temperature

FG-59-030: LDN-88-190(100m) - 100m roll
FG-59-031: LDN-88-190(200m) - 200m roll
FG-59-032: LDN-88-190(500m) - 500m roll
FG-59-033: LDN-88-190(1000m) - 1000m roll

105°C (220°F) Alarm Temperature

FG-59-034: LDN-105-220(100m) - 100m roll
FG-59-035: LDN-105-220(200m) - 200m roll
FG-59-036: LDN-105-220(500m) - 500m roll
FG-59-037: LDN-105-220(1000m) - 1000m roll

ACCESSORIES:

FG-59-004: 8687/EOL - 47k end of line box
FG-59-005: MB - Linear Heat Detection cable junction box

SPECIFICATIONS

General

Construction: Overall insulated, twisted pair of tri-metallic cores

Insulation: 1kV tested protective outer coat. Nylon: Harsh Area versions. Polypropylene: General Purpose versions.

Maximum zone length: 3,000m

Minimum radius bend: 50mm

Colour: Red: General purpose versions. White: Harsh area versions

Electrical Specifications

Maximum rated voltage: 30Vac, 42Vdc

Resistance: ~100R/km

Capacitance: 88 - 150pF/m

Inductance: 540 - 1050nH/m

Temperature and Humidity

-40 – 45°C (68°C/78°C versions); -40 – 70°C (88°C/105°C versions);

AGENCY LISTINGS AND APPROVALS

- CE marked
- RoHS compliant
- UL & FM



ISO9001
FS 520324
QUALITY SYSTEMS

This document is not intended for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

© 2015 Honeywell Ltd

For more information please contact your nearest Notifier Office or Distributor

www.notifier.com.au | www.notifier.co.nz

