

Linear Heat Detection Cable

Industrial Application Devices



Conductor Cable

General

System Sensor LD and LDN Series digital linear heat detection cables are designed to trigger a response when the specific temperature is reached. If the temperature surrounding the cable reaches the activation temperature the heat sensitive polymer insulation melts and the two cores quickly come into contact and trigger an alarm via either an Intelligent Monitor Module or Conventional Zone.

System Sensor LD and LDN Series is flexible and simple to install, allowing it to be easily installed along conveyor belts, in cable trays or wrapped around fan motors.

LD Series is intended for general purpose applications

LDN Series incorporates a nylon outer coating to provide chemical resistance for harsher environments.

Linear Heat detection is commonly used in application where thermal sensing is required over large distances or where other type of point-type detection is not suitable. Typical applications are:

- Roads and Tunnels
- Cable Tunnels and Cable Trays
- Warehouse Racking
- Conveyor Belts and Escalators

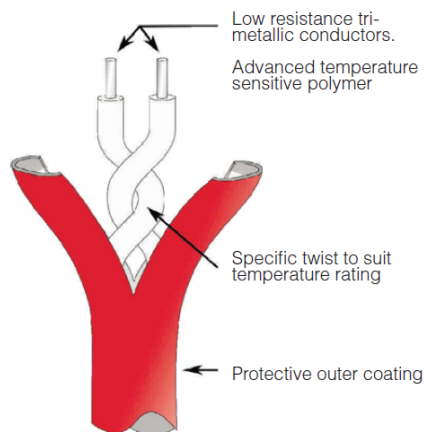
Features

- UL, FM, CE, RoHS approved to meet end user specifications
- Wide area coverage with maximum length of 3000m and continuous sensitivity along the length of cable.
- Choice of temperature sensitivity to provide maximum protection
- Compatible with conventional zone or monitor module for connection to Fire Alarm Control Panel
- Suitable for outdoor and/or harsh environments
- Low installation, maintenance and repair costs reduce total cost of ownership

Specifications

General

CONSTRUCTION	Overall insulated, twisted pair of tri-metallic cores
INSULATION	1 kV tested protective outer coat. Nylon: Harsh Area versions. Polypropylene: General Purpose versions.
MAXIMUM ZONE LENGTH	3000,m
MINIMUM RADIUS BEND	50mm
COLOUR	Red: General purpose versions. White: Harsh area versions



Linear Heat Detection cable construction

Electrical Specifications

MAXIMUM RATED VOLTAGE	30Vac, 42Vdc
RESISTANCE	~100R/km
CAPACITANCE	88 - 150pF/m
INDUCTANCE	540 - 1050nH/m

Temperature and Humidity

68°C/78°C versions	-40°C to 45°C
88°C/105°C versions	-40°C to 70°C

Ordering

General Purpose Linear Heat Detection

SS-LD-68-155-x*	Linear Heat Cable 68 deg, roll of x*m
SS-LD-78-172-x*	Linear Heat Cable 78 deg, roll of x*m
SS-LD-88-190-x*	Linear Heat Cable 88 deg, roll of x*m
SS-LD-105-220-x*	Linear Heat Cable 105 deg, roll of x*m

Harsh Area Linear Heat Detection

SS-LDN-68-155-x*	Linear Heat Cable with nylon coating 68 deg, roll of x*m
SS-LDN-78-172-x*	Linear Heat Cable with nylon coating 78 deg, roll of x*m
SS-LDN-88-190-x*	Linear Heat Cable with nylon coating 88 deg, roll of x*m
SS-LDN-105-220-x*	Linear Heat Cable with nylon coating 105 deg, roll of x*m

* NOTE: x= Roll length in metres

Length options available: 100m, 200m, 500m, 1000m.

Ordering example:

SS-LD-68-155-100 Linear Heat Cable 68 deg, roll of 100 metre

SS-LDN-105-220-1000 Linear Heat Cable with Nylon Coating 105 deg, roll of 1000 metre

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.

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DOC-02-122 / 06/20 | Rev C

