

# DLI-2K

Digital Location Interface  
(Monitoring distance 2Km)

# LINESENSE

Fire Detection Ltd

[www.linesense.co.uk](http://www.linesense.co.uk)



The Digital Location Interface (DLI) monitors the Linear Heat Detection (LHD) cable and when activated identifies the location of the alarm. The distance in meters is then displayed on the 3½ digit LCD. Providing detection and location along the complete length of the LHD cable.

With the ability to monitor up to 2000m for both Fire and Fault conditions the DLI enhances any fire detection capability and allows an appropriate action to be taken.

The DLI offers flexible interfacing options, designed as a two wire device for connecting directly into a conventional fire alarm panel, it also has the ability to signal via volt free relay contacts for Fire and Fault, plus a 4-20 mA output representing 0m to 2000m.

The DLI is available as a DIN Rail mountable unit or fitted into an IP 65 weather proof enclosure.



## Features

Detection & display of Alarm location for the complete length of LHD cable.

From 0m to 1,999m

3½ Digit LCD

LED Fire and Fault indicators

Fire and Fault Test Functions

Suitable for monitoring hazardous area applications using safety barriers

DIN Rail mounted or IP 65 Housing available

Volt free relay outputs for Fire and Fault

4 - 20mA output

Configurable for 2 wire mode

Remote reset input.

SIL-2 Certified

## Applications

Power Generation

Cable Trays / Tunnels

Road and Rail Tunnels

Car Parks

Conveyors (Bearing) protection

Storage racks warehouse, Refrigerated rooms and cold stores.

Petro-chemical storage tanks, rim seal

# DLI-2K

Digital Location Interface  
(Monitoring distance 2Km)

# LINESENSE

Fire Detection Ltd

www.linesense.co.uk

## Specifications.

### Electrical.

Operating voltage : 14 - 30 VDC Two wire mode  
20 - 30 VDC Relay mode

Operating Current  
Normal Quiescent : 1.7 mA Two wire mode  
11.5 mA Relay mode.

Fire Alarm (max) : 12 mA Two wire mode  
29 mA Relay mode.

Fault Condition : 700 uA

### Outputs:

Fire : 2 x VFCO relays, 1 amp 24 VDC / 120 VAC Resistive

Fault : 2 x VFCO relays, 1 amp 24 VDC / 120 VAC Resistive

4 - 20 mA signal loop output

LCD: 3½ Digit (Accuracy ±1 digit, Tolerance ±3%)

Input : Remote Reset.

Maximum length of LHD : 2,000m

### Mechanical

Dimensions : H105 x W86 x D58 mm (DIN Rail version)  
H200 x W164 x D116 mm (Polystyrene enclosure)  
Cable entries : 4 x M20, 1 x M25 Top  
4 x M20, 1 x M25 Bottom  
2 x M20 each side.

**Approvals :** SIL-2 Capable - Third party assessed to IEC61508

## Ordering Information

### Part Number

52100-001

52100-003

### Description

DLI-2K Digital Location Interface 2Km (IP65 Enclosure)

DLI-2K Digital Location Interface 2Km (DIN rail version)

**Note:** If installation requires hazardous area safety barriers add the following suffix's to part numbers:  
-G for use with Galvanic isolator and -Z for use with Zener barriers.

53100-001

53100-003

53100-012

53100-013

53100-014

EOL Junction Box for DLI - Polycarbonate

EOL Junction Box for DLI - SS316

EOL Junction Box for DLI with internal test switches - Aluminium

EOL Junction Box for DLI with test switch - SS316

EOL Junction Box for DLI with test switch - ABS