

DLI-2K

Digital Location Interface
(Monitoring distance 2Km)

LINESENSE

Fire Detection Ltd

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

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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
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Ordering Information

Part Number

Description

52100-001	DLI-2K Digital Location Interface 2Km (IP65 Enclosure)
52100-003	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	EOL Junction Box for DLI - Polycarbonate
53100-003	EOL Junction Box for DLI - SS316
53100-012	EOL Junction Box for DLI with internal test switches - Aluminium
53100-013	EOL Junction Box for DLI with test switch - SS316
53100-014	EOL Junction Box for DLI with test switch - ABS