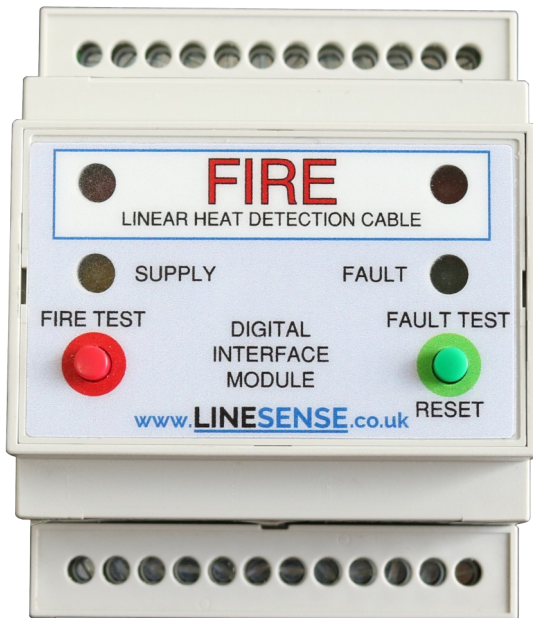


DIM

Digital Interface Module



Features

Volt free relay outputs for Fire and Fault
Provides monitoring of faults on both field wiring and the LHD.
LED Fire and Fault indicators
Remote LED indicator outputs for both Fire and fault.
Fire and Fault Test Functions
Suitable for monitoring hazardous area applications when using safety barriers
DIN Rail compatible
SIL 2 Certified

The Digital Interface Module (DIM) monitors the Linear Heat Detection (LHD) cable for both Fire and Fault (open circuit) conditions. By the use of an additional series resistor it can also offer discrimination of a short circuit fault on the interposing field wiring.

With the ability to monitor up to 5000m for both Fire and Fault conditions the DIM enhances any fire detection capability and allows an appropriate action to be taken.

The DIM has volt free relay outputs for Fire and Fault which can be configured for connecting directly into a conventional fire alarm panel or addressable interface module.

As well as having Fire and Fault indicators built in, it has two pairs of outputs for driving remote LED indicators for Fire and Fault.

The DIM has been third party assessed to IEC61508 and is certified as being SIL2 Capable.



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 protection
Motor and pump overheat detection.
Dirty and dusty environments.
Building exteriors under eaves

Specifications.

Electrical.

Operating voltage :	21 - 30 VDC
Operating Current	
Normal :	25 mA (Fault relay energised)
Fire Alarm (max) :	56 mA

Outputs

Fire :	2 x VFCO relays, 1.0 Amp 24VDC / 120 VAC
Fault :	1 x VFCO relays, 1.0 Amp 24VDC / 120 VAC
Remote indicator outputs :	4 x 100 mA
Inputs :	Reset and lamp test.

Maximum length of LHD :	5,000m
-------------------------	--------

Mechanical

Dimensions :	H90 x W71 x D58 mm
--------------	--------------------

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

Ordering Information

Part Number

52101-001

Description

DIM Digital Interface Module

53101-001

EOL Junction Box for DIM - Polycarbonate

53101-003

EOL Junction Box for DIM - SS316

53101-012

EOL Junction Box for DIM with internal test switches - Aluminium

53101-013

EOL Junction Box for DIM with test switch - SS316

53101-014

EOL Junction Box for DIM with test switch - ABS