DIM-28
Digital Interface Module

LINESENSE
Fire Detection Ltd

www.linesense.co.uk

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-28) 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 1,500m for both Fire and Fault conditions the DIM-28 enhances any fire detection capability and allows an appropriate action to be taken.

The DIM-28 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-28 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

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Specifications.

Electrical.

Operating voltage :	21 - 30 VDC
Operating Current	
Normal :	25 mA (Fault relay energised)
Maximum :	56 mA (Fire relay energised)
Indicators :	Fire - Red 2 x off.
	Fault - Yellow
	Power - Green

Outputs

Fire :	2 x VFCO relays, 1.0 amp 24 VDC / 120 VAC
Fault :	1 x VFCO relays, 1.0 amp 24 VDC / 120 VAC
Remote indicators:	Fire 2 x 100 mA
	Fault 2 x 100 mA
Inputs :	Remote Reset / Fault test
	Remote indicators lamp test.
Linear heat detector :	1,500m max, Single zone, requires 10K ohm end of line resistor.

Mechanical

Dimensions :	H90 x W71 x D58 mm
Environment :	0—60°C @ 95% max humidity.
Approvals :	Certified SIL-2 Capable - Third party assessed to IEC61508

Ordering Information

Part Number	**Description**
52101-001-28	DIM-28 Digital Interface Module
53106-001	EOL Junction Box for DIM - Polycarbonate
53106-003	EOL Junction Box for DIM - SS316
53106-012	EOL Junction Box for DIM with internal test switches - Aluminium
53106-013	EOL Junction Box for DIM with test switch - SS316
53106-014	EOL Junction Box for DIM with test switch - ABS