LDM-519-DIM-28
Non-Resettable Digital Interface Monitor

PATOL
FIRE DETECTION SOLUTIONS

Features

- **EN54-28:2016 Environmental Group II**
- **SIL 2 Certified**
- LHDC Hazardous Area use by means of an Intrinsic Safety Zener Barrier/Galvanic Isolator
- Fault monitoring of LHDC for open circuit conditions
- LED Indication of Fire, Fault & Supply status
- Integral Test & Reset push-buttons.
- Volt free contact outputs for Fire and Fault conditions
- Indicator and control switch connections for local fascia implementation DIN rail Mounting

The LDM-519-DIM-28 module is designed to monitor a length of Non-Resettable Digital Linear Heat Detection Cable (LHDC) for both a fire condition, and fault status (open circuit). The LDM-519-DIM-28 is certified to be fully compatible with EN54-28:2016 Environmental Group II and is SIL 2 Certified.

Non-Resettable Digital LHDC may be employed in lengths up to 1500m when using the LDM-519-DIM-28 module. Signalling of fire and fault status is generated by means of volt free contacts.

The LDM-519-DIM-28 has been specifically designed in a DIN rail format to allow it to be used in a variety of discrete housings or integrated multi zone control panels.

Patol offer a complete range of special build panels which can incorporate this module for projects that require unique and tailored solutions.

For further information on Non-Resettable Digital LHDC's performance and specification see SIS D1476 & D1477.

Applications

- Cable Tunnels, Ducts and Mezzanines
- Escalators and Moving Walkways
- Petro-Chemical Floating and Fixed Roof Tanks
- Refrigerated Stores and Cold Rooms
- Ceiling Voids and Attic Spaces
- Conveyor and Bearing Protection
- Car Parks and Open Storage Areas
- Warehouse and Racking Protection

FIRESENSE
LINEAR HEAT DETECTION CABLE

UK CA CE UL EU S36362

Patol Limited, Archway House, Bath Road, Padworth, Reading, Berkshire, RG7 5HR Tel: +44 (0)1189 701 701 Email: Info@patol.co.uk

LDM-519-DIM-28
Non-Resettable Digital Interface Monitor

Figure 1 shows a typical system where the Non-Resettable Digital LHDC is connected via a junction box and interposing cable.

The repeat contacts may be employed to signal an alarm panel and / or initiate control systems.

Figure 1

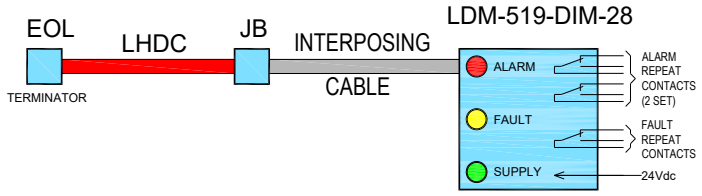
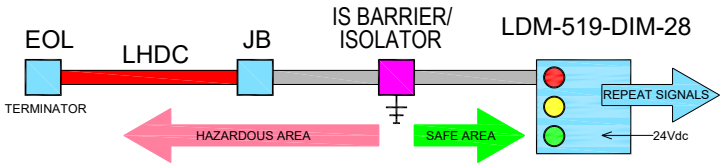


Figure 2 shows an arrangement for a 'Hazardous Area' employing an Intrinsically Safe Zener barrier/ Galvanic Isolator

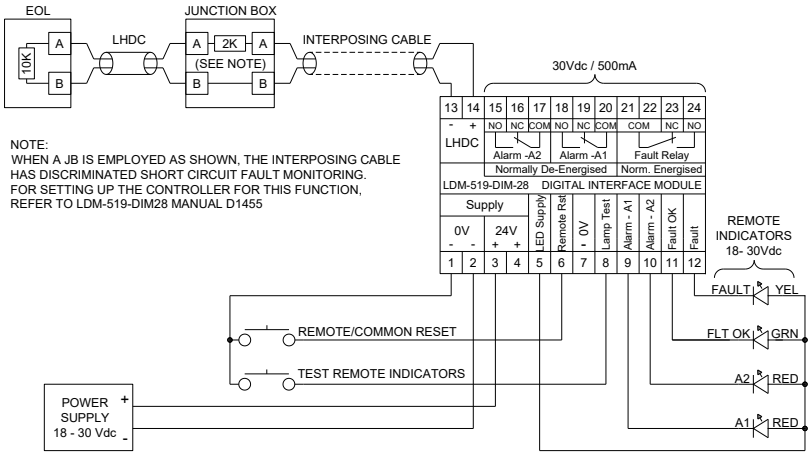
Figure 2



Special Note: In order to provide short circuit fault discrimination of interposing cables a series resistor equal to 2KΩ should be incorporated at the start of the LHDC in the interposing junction box.

For setting up the Controller for this function refer to the LDM-519-DIM28 manual: D1455.

Connections - Typical



Specifications

Dimensions (WHD):	90mm x 71mm x 58mm
Supply Voltage:	18-30Vdc
Supply Current:	<25mA - Normal/Fault <56mA - Alarm/Fire
LHDC Terminator:	10K End Of Line resistor
Indicators:	Alarm:- Red - 2 off Fault:- Yellow - 1 off Supply:- Green - 1 off
Push-buttons:	Alarm - Test Fault - Test/Reset
Relay Contacts:	Alarm - changeover - 2 sets Fault - changeover - 1 set
Lamp Outputs:	Alarm - switch to 0V - 25mA max Fault - switch to 0V - 25mA max
Remote Inputs:	Reset Lamp Test

Ordering Information

Description	Part Number
LDM-519-DIM-28	700-442

For compliance with BS EN54-28:2016 use the following Digital Cables:

FRPE 73°C	700-070LS0H
FRPE S.S* 73°C	700-071LS0H
FRPE 93°C	700-090LS0H
FRPE S.S* 93°C	700-091LS0H

*Stainless Steel Braid

PATOL
FIRE DETECTION SOLUTIONS

Patol Limited, Archway House, Bath Road, Padworth, Reading, Berkshire, RG7 5HR Tel: +44 (0)1189 701 701 Email: Info@patol.co.uk