

# LDM-519-DIM

## Digital Interface Monitor



The LDM-519-DIM module is designed to monitor a length of Digital Linear Heat Detection Cable (LHDC) for both a fire condition, and fault status (open circuit). The DIM module is certified to be fully compatible with SIL 2 certified systems.

Digital LHDC may be employed in lengths up to 5km when using the LDM-519-DIM module. Signalling of fire and fault status is generated by means of volt free contacts.

The module 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 Digital LHDC's performance and specification see SIS D1179.

### Features

LHDC Hazardous Area use by means of Intrinsically safe Zener Barrier

#### SIL 2 certified

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

### Applications

Cables, 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

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Figure 1 shows a typical system where the 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**

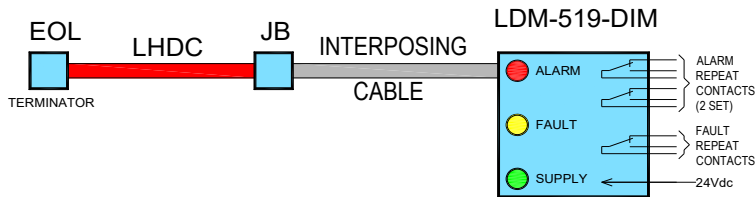
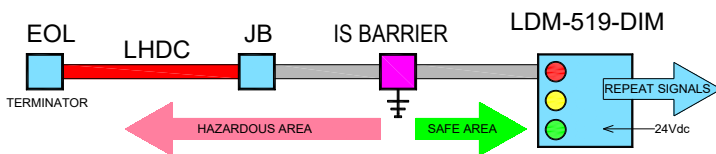


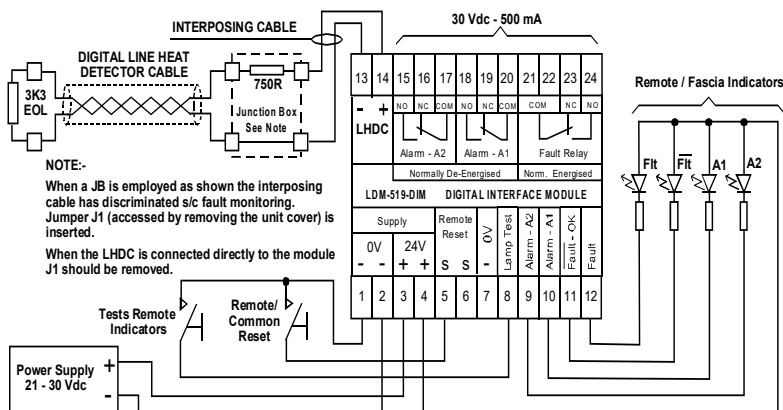
Figure 2 shows an arrangement for a 'Hazardous Area' employing an intrinsically safe Zener barrier

**Figure 2**



Special Note: In order to provide short circuit fault discrimination of interposing cables a series resistor equal to 750Ω should be incorporated at the start of the LHDC in the interposing junction box. Module jumper J1 should be inserted.

### Connections - Typical



## Specification

<b>Dimensions</b>	90mm x 71mm x 58mm
<b>Supply Voltage:</b>	21-30Vdc
<b>Supply Current:</b>	<25mA - Normal/Fault
<b>LHDC Terminator:</b>	3K3 End Of Line resistor
<b>Indicators:</b>	Alarm: Red - 2 off Fault: Yellow - 1 off Supply: Green - 1 off
<b>Push-buttons:</b>	Alarm Test
<b>Relay Contacts:</b>	Alarm - changeover - 2 sets
<b>Lamp Outputs:</b>	Alarm - switch to 0V-100mA Fault - switch to 0V - 100mA
<b>Remote Inputs:</b>	Reset

## Ordering Information

Description	Part Number
LDM-519-DIM	700-441

### Used with the following Digital Cables:

Nylon 70°C	700-070
Nylon S.S* 70°C	700-071
Nylon 90°C	700-090
Nylon S.S* 90°C	700-091
Hytrel 180°C	700-180
Hytrel S.S* 180°C	700-181

\*Stainless Steel Braid