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 2Km 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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Specification

- **Dimensions (WHD):** 90mm x 71mm x 58mm
- **Supply Voltage:** 21-30Vdc
- **Supply Current:**
  - <25mA - Normal/Fault
  - <56mA - Alarm/Fire
- **LHDC Terminator:** 3K3 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-100mA
  - Fault - switch to 0V - 100mA
- **Remote Inputs:**
  - Reset
  - Lamp Test

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**

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

This document is only intended to be a guideline and is not applicable to all situations.

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