

LDM-519-LP

Interface for Resettable Analogue LHDC



The module is designed to monitor a zonal length of Resettable Analogue Linear Heat Detection Cable (LHDC) for both an elevated temperature (Fire) condition, and Fault Status (Open & Short Circuit).

It operates in conjunction with a single core coaxial cable and an end of line (EOL) functional unit. The module provides early warning of hot spots and fire conditions on short sections of the overall zone length. Maximum Zone length for Resettable Analogue Linear Heat Detection Cable is 500m when connected to this module*.

It is designed so that it can be configured to operate in two wire mode that emulates the operation of conventional heat detectors. Allowing for direct interfacing with the Fire Control panels trigger circuits.

Signalling of Fire and Fault Status by means of Volt Free Contacts may also occur when a separate power supply is used.

The modular form of the unit enables it to be provided in a variety of discrete housings and readily integrated into special control panels.

*subject to the maximum ambient temperature and the configuration of the unit.

Features

SIL 2 Certified

Adjustable Alarm set point

LED Indication of Fire, Fault and Supply Status

Analogue address interface, Line powered configurable

Fault Monitoring for open & short circuits

Selectable Latching / Auto reset operation

VFC outputs for Fire & Fault conditions

Operable from two wire fire panel trigger circuits.

Applications

Cable Tunnels, Ducts & Mezzanines

Escalators & Moving Walkways

Petro-Chemical Storage Tanks.

Refrigerated Stores & Cold Rooms

Ceiling Voids & Attic Spaces

Conveyor, Bearing Protection

Car Parks, Open Storage areas

Warehousing, Racking Protection

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There are three principle modes of supply & signalling operation:-

Figure 1 shows a typical minimum system where a discrete 24Vdc supply is employed.

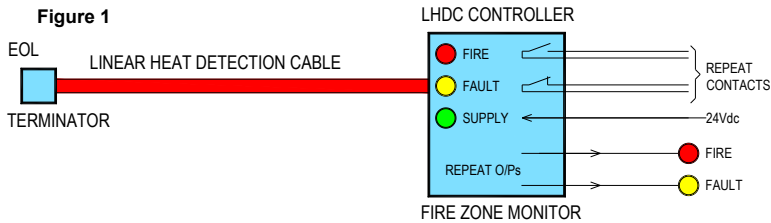
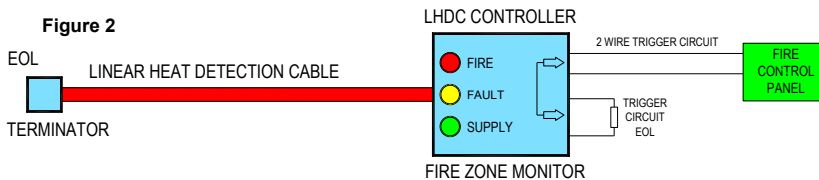


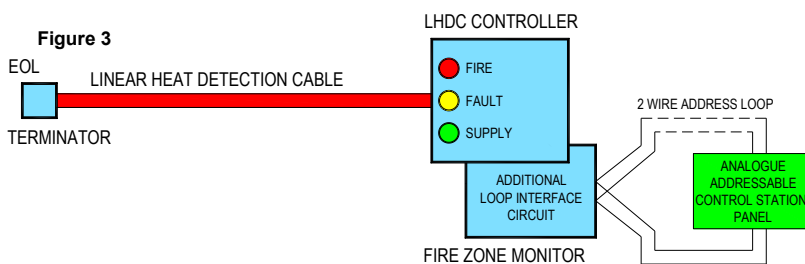
Figure 2 shows a simple configuration with the unit directly connected to a conventional fire alarm panel circuit.



Note: When directly connected to a conventional circuit the supply +ve (24Vdc) terminals are used.

See manual for correct positioning of Jumpers/Selectors.

Figure 3 shows the configuration when a LOOP interface module is fitted.



Note: Configurations for Fig 2 & 3, is dependant on the voltage and current specifications of the LDM-519-LP being compatible with the monitoring technique and electrical characteristics of the Control Panel/Zone Monitor.

Connections

Outputs		Fire Load/Remote		Supply 0V		Fault Loop		Supply 24V		Fire Contact			Fault Contact			LHDC		
FIRE	FAULT	-	+	-	-	-	+	+	+	+	COM	N/C	N/O	COM	N/C	N/O	SCREEN	CORE
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	

Specifications

Dimensions (WHD):

125mm x 175mm x 75mm

Weight: 0.85kg

IP Rating: IP66

Material: Polycarbonate

Supply Voltage:

13-30 Vdc (2 wire mode)

20-30 Vdc (relay mode)

> 5.5 Vdc (latched fire)

< 4.0 Vdc (Reset)

Current Normal:

< 250 µA (2 wire mode)*

< 10 mA (with fault relay)

*Plus user defined monitoring current

Current Fire:

1.2 mA (2 wire mode) **

< 10 mA (with fire relay) **

< 20 mA (with both relays)

**Plus user defined Fire (trigger) load

Current Fault:

< 300 µA

Relay Contacts:

1A @ 24Vdc / 120Vac

Ordering Information

Description	Part Number
LDM-519-LP	700-201

Used with the following Analogue cables:

Red FRPE	700-001LS0H
Red FRPE S.S*	700-005LS0H

* Stainless Steel Braid