

LDM-519-ACT-N

LHD Interface for Analogue with Actuation



The ACT-N controller is designed to monitor a zonal length of Analogue Linear Heat Detection Cable (LHDC) for elevated temperature states. Two adjustable levels of alarm are provided (A1 & A2), one of which may be optionally employed as a “Pre-Alarm”.

The LHDC is also monitored for fault conditions (open & short circuit).

The Controller is provided with an output for the initiation of extinguishing media. This Actuation Output is primarily intended for the use with electrically operated chemical protractors (Metrons).

The ACT-N has fault monitoring circuitry appropriate to the series firing of these devices using an “All Fire” actuation loop configuration.

LHDC is of coaxial construction and is used in conjunction with an end of line (EOL) terminator. The Controller provides early warning of hot spots and fire conditions on short sections of the overall LHDC zone length. Maximum LHDC zone length for Analogue cable is 500m.

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

Features

Two level Alarm set points

Adjustable Alarm set points & Actuation loop monitoring.

Extinguishant actuation output.

LED Indication of Fire, Fault and Supply status

Separate LHDC Monitoring & Actuation Supplies
-Electrically isolated.

Wide dc supply operation (positive earthed)

Monitoring 20Vdc to 60Vdc

Actuation 20Vdc to 130Vdc

Fault Monitoring for open and short circuits

Selectable Latching/Auto reset operation

VFC relay outputs for fire and Fault conditions

Applications

Cable Tunnels, Ducts & Mezzanines

Escalators & Moving Walkways

Petro-Chemical Floating and Fixed Roof Tanks.

Refrigerated Stores & Cold Rooms

Ceiling Voids & Attic Spaces

Conveyor, Bearing Protection

Car Parks, Open Storage Areas

Warehousing, Racking Protection

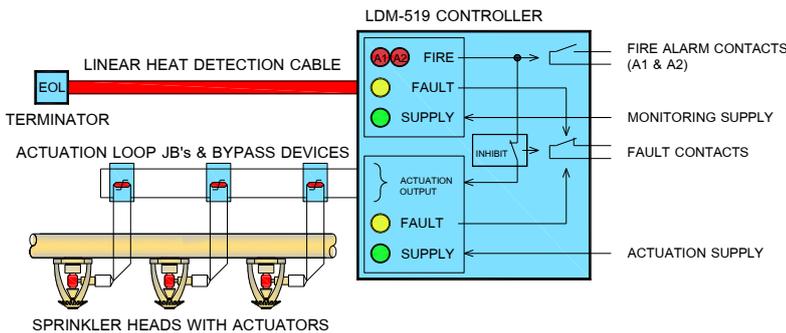
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The alarm relay outputs can be operated in two modes.

Mode 1; where a single alarm level operates both relay outputs. This is achieved by adjusting the A2 set-point to less than that for A1. Thus both A1 & A2 trip simultaneously - **At the A1 set point.**

Mode 2; with pre-alarm; where a two stage alarm operates. This may be achieved by using A1 for Pre-Alarm and A2 for Alarm.

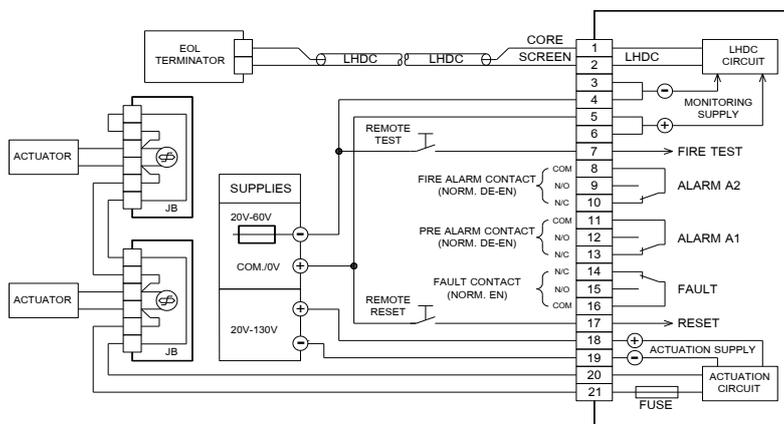


Specifications

Dimensions (WDH)	220mm x 120mm x 76mm	
Weight:	0.85Kg	
IP Rating:	IP66	
Material:	Polycarbonate	
Supply Voltage:	Monitoring 20Vdc to 60Vdc Actuation 20Vdc to 130Vdc	
Supply Current:	Quiescent <18mA Max (Alarm) <60mA	
Relay Contacts:	1A @ 24Vdc/120Vac	
	Fire Alarm A2	1x1 pole change over
	Fire Alarm A1	1x1 pole change over
	Fault	1x1 pole change over

Connections

LDM-519 Module terminals showing typical external connections.



Ordering Information

Description	Part Number
LDM-519-ACT-N	700-304

Used with the following Analogue cables:

Red PVC	700-001
Red PVC S.S*	700-005
Black Nylon	700-003
Black Nylon S.S*	700-004

* Stainless Steel Braid