



## **FIREPLUS-LHD DIGITAL INTERFACE UNIT**

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**ORDERCODE LHD-DIU**

### **A UNIQUE AND FLEXIBLE INNOVATION**

Advanced functionality for the FirePlus-LHD Linear Heat Detection System

Pinpoint the exact location of an incident and respond immediately

UL864 10th Edition Approved

Simultaneously monitor up to two zones

A Unique and Flexible dual zone Digital Interface Unit, offering advanced functionality to the FirePlus-LHD Linear Heat Detection System.

A further important addition to the FirePlus-LHD world-leading family of digital linear heat detection technologies, the FirePlus-LHD Digital Interface Unit is designed to work with the FirePlus-LHD Linear Heat Detection Cable system to effectively monitor up to two zones at any one time.

The Digital Interface Unit is unique in being approved to the UL864 10th edition standard, the most recent revision to the UL standard for fire alarm control panels and accessories. It has been designed and tested against the stringent requirements of the 10th edition including new tests to confirm the integrity of the software in the device.

The Digital Interface Unit simultaneously monitors two zones of LHD cable for an alarm or fault condition. If an overheat or fire situation triggers either zone of the cable, the Unit automatically calculates and displays the distance along the cable to the alarm point. The two zones can operate independently of each other or in an interlock/coincidence detection mode to eliminate the possibility of false alarms.

The Unit is intended to be installed between the FirePlus-LHD Linear Heat Detection Cable and one of our conventional or addressable fire alarm control panels.

## IMMEDIATELY IDENTIFY THE SOURCE OF AN ALARM

The FirePlus-LHD Digital Interface Unit allows the accurate and immediate location of a trigger along the length of our FirePlus-LHD Linear Heat Detection cable.

When the FirePlus-LHD Digital Interface Unit is connected to a length of FirePlus-LHD Linear Heat Detection cable, the distance to an overheat condition is immediately calculated and displayed on the integrated display. Additionally, should an alarm be detected, the corresponding alarm output changes state, triggering an alarm at the fire alarm panel.

For complete protection, the integrity of the system is guaranteed at multiple levels. A zone fault is triggered if:

1. The Linear Heat Detection cable is broken,
2. A ground fault occurs on either zone,
3. Power to the Unit is lost or,
4. The microprocessor malfunctions.



### BENEFITS

- UL listed
- Simultaneously monitors up-to two zones, increasing potential applications
- Immediately pinpoints exact location and responds to an incident
- Can be retro-fitted to existing installations
- Cost effectively increases functionality and performance of your FirePlus-LHD Linear Heat Detection System
- Connects to all of our addressable fire alarm control panels for fast response to faults
- Low installation and maintenance costs reduces total cost of ownership
- Reliability through design, provided with a 3-year warranty

### FEATURES

- Power indicator, fault and alarm lights for each zone
- Volt-free outputs for fault and alarm, corresponding to each zone
- Can be connected to an industrial process control system using the two-wire RS485 Modbus RTU output
- Interlock/Coincidence detection eliminates the possibility of false alarms by requiring both LHD cables to trigger before transmitting an alarm
- Built-in sounder

### TYPICAL APPLICATIONS

- Power generation industries
- Oil and gas industries
- Mines
- Cold storage and industrial freezers
- Floating roof storage tanks
- Tunnels
- Cable trays
- Warehousing