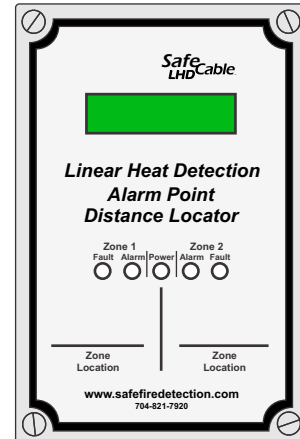# DLM-Z2 Distance Locating Module

Use With Any Addressable or Conventional System

- *Can Be Used As A Single or Multi-Zone Distance Locator*
- *Compatible with Any Listed Fire Alarm Panel*

Linear Heat Detection
Alarm Point
Distance Locator

Zone 1   Zone 2
Fault Alarm Power Alarm Fault

Zone
Location

Zone
Location

www.safefiredetection.com
704-821-7920

Features

- UL Approved
- Can be One or Two Zones
- Single or Cross Zone
- Displays in Feet or Meters
- Built in MODBUS Interface
- Each Zone Can Use The Same or Different Temperature Cables
- If Two Different Temperatures Are Used, one can be a Pre-alarm
- Can be used with ANY UL Listed Panel

Description

The SafeCable Alarm Distance Locator Module (DLM-Z2) is a dual zone module for monitoring up to two zones of The SafeCable Digital Linear Heat Detection (LHD) Cable. If an overheat or fire situation triggers either zone of the LHD cable the unit automatically calculates and displays the distance along the cable, in feet and meters, to the alarm point. The two zones can operate independently of each other, or in interlock mode and a separate alarm and normally conducting fault output are provided for each zone. The unit is intended to be installed between the Digital Linear Heat Detection cable and a conventional or addressable fire alarm control panel. It has power, fault and alarm lights, as well as volt free outputs for fault and alarm, corresponding to each zone. It may also be connected to a industrial process control system using the two wire RS-485 Modbus RTU output

Applications

The DLM-Z2 Distance Locating Module may be used for locating an alarm point on a SafeCable Linear Heat Detection run. Alarm point notification is useful for in-rack storage, conveyors, tunnels and subway applications. The DLM-Z2 may be used with any conventional or addressable panel on new or existing systems.
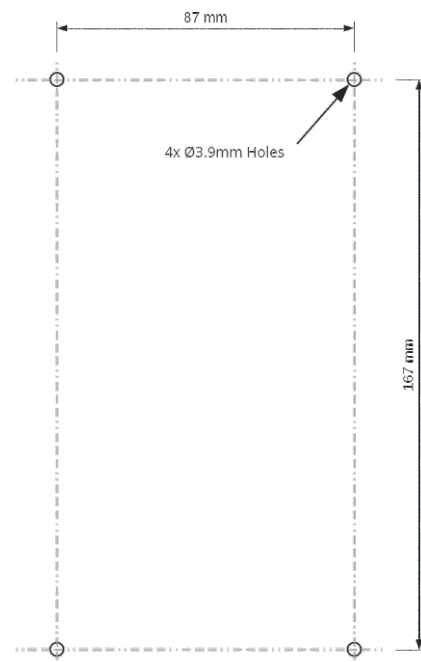
Mounting Details

87 mm

4x Ø3.9mm Holes

167 mm

Figure 2: Mounting Dimensions for the SafeCable DLM-Z2

Wiring

RS-485
Modbus RTU

12V dc - 36V dc
Power Supply

Digital Linear
Heat Detection
Cable Zone 1

Digital Linear
Heat Detection
Cable Zone 2

SET   SELECT

FAULT ALARM POWER ALARM FAULT
Zone 1   Zone 2

FAULT ALARM   ALARM FAULT
- +   NC C NO   NC C NO   - +

Fault & Alarm   Fault & Alarm
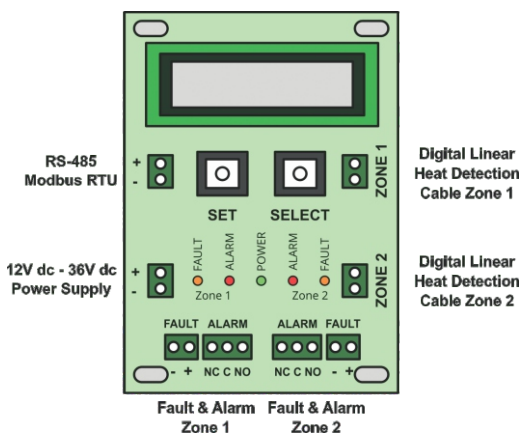Zone 1   Zone 2

ZONE 1

ZONE 2

Figure 3: Wiring Diagram for the SafeCable DLM-Z2

■ Installation Example
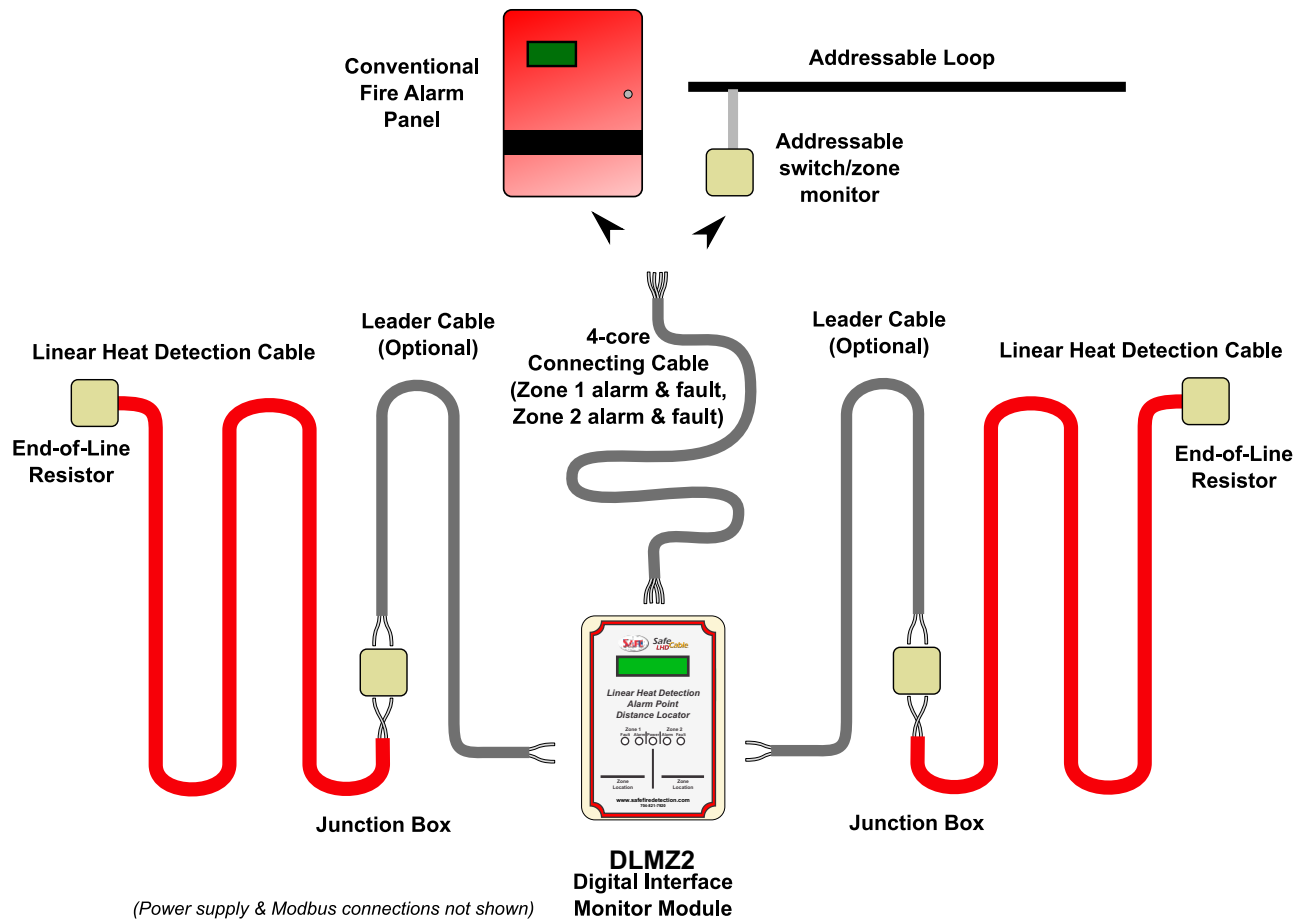
Figure 1: Typical Installation of the SafeCable Alarm Distance Locator Module

■ Specifications

Dimensions (W x H x D):	H7.1in x W4.72in x D2.38in (H180mm x W120mm x D60.5mm)
Weight:	1 lb. (0.45kg)
Operating Temperature:	-4°F – +122°F (-20°C – +50°C)
Power Requirements:	Normal Operation: 8mA @ 24VDC Alarm Point Locating: 28mA @24VDC
Systems:	Addressable or Conventional
Enclosure:	NEMA 4x
Max. LHD length:	10,000 ft. (4,571m)

Note: Please refer to all federal, state and local codes, and manufacturer's recommendations prior to design or installation.