

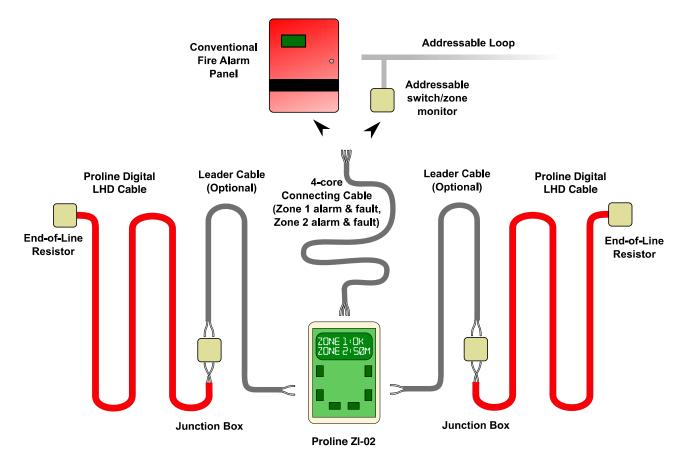
Proline ZI-02 Control Unit

General Overview

ZI-02 Control Unit

The Proline ZI-02 is a dual zone module for monitoring up to two zones of Proline Digital Linear Heat Detection (LHD) Cable. If an overheat or fire situation triggers either zone of the Digital LHD cable the unit automatically calculates and displays the distance along the cable, in feet and metres, 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/ ASCII output.



(Power supply & Modbus connections not shown)

Figure 1: Typical Installation of the Proline ZI-02

Technical Specifications

Part Number: ZI-02

Part Description: Proline ZI-02

UL Model Number: ZI-02
UL File Number: S36572
Revision: 1.6

Approvals: UL 864 10th ed.

Enclosure:

...Dimensions H180mm x W120mm x D60.5mm (H7.1in x W4.72in x D2.38in)

...Rating NEMA 4, 4X (IP65)
...Finish Light Gray with clear lid

...Display 2 line, 16 character backlit display showing zone status

Power Requirements: All circuits power limited if powered from a power limited supply

Min. Nominal Max.

Operating Temperature Range: -20°C - +50°C (-4°F - +122°F)

Terminal Blocks:

...Spacing 5mm Rising Clamp

...Rating 16A

...Wire Size 0.08mm² (28AWG) to 4mm² (11AWG)

Supervised Circuits: Power, Input Zone 1 & Input Zone 2

Inputs: Up to two Class B zones of Proline Digital LHD Cable

...Max Zone Length 3000m (10,000ft)

...Min Zone Length 1m

...End of line resistor 1kohm (included)

...Short circuit current 0.5mA ...Max Voltage 5V ...Ground fault impedance 0ohms

Outputs:

...Communications Two wire RS-485 Modbus RTU/ASCII ...Sounder 2.4kHz 92dBa @ 10cm Buzzer

...Alarm 2x Form C volt-free relay contacts (resistive, common)

Max V 30Vac or 42.4Vdc

Max Current 2A

Max Switching Power 60W, 62.5VA

...Fault 2x Optoisolated phototransistor output (resistive, common)

Max V35VdcMax Current80mAMax Power Dissipation150mW