



PROLINE 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 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 indication, as well as volt free outputs for fault and alarm, corresponding to each zone.

The Proline ZI-02 can be used with Digital Fixed Temperature Linear Heat Detection cable, which is to be installed in hazardous areas using intrinsically safe barriers. The ZI-02 unit should be installed in the safe area and the intrinsically safe barrier used to separate the safe area and the hazardous area.

It may also be connected to an industrial process control system using the two wire RS-485 Modbus RTU/ASCII output.

KEY FEATURES

- UL 864 10th Edition approved File No S36572
- Can monitor 2 digital cables.
- Independent or Interlock/Coincidence detection
- Alarm point displayed in metres or feet.
- RS-485 Communication

TECHNICAL DATA: ELECTRICAL

Approvals:	CE Marked, RoHS Compliant, UL 864 approved File No S36572
Dimensions:	H180mm x W120mm x D60.5mm (H7.1in x W4.72in x D2.38in)
Rating:	NEMA 4, 4X (IP65)
Finish:	Light Grey with clear lid
Display:	2 line, 16 character backlit display showing zone status
Normal Operation (Standby):	<15mA to <5mA
Alarm:	<40mA to <15mA
Operating Temperature Range:	-20°C to +50°C (-4°F to +122°F)
Supervised Circuits:	Power, Input Zone 1 & Input Zone 2
Inputs:	Up to two zones of Proline Digital LHD Cable 3000m
Max Zone Length:	3000m (10,000ft)
Min Zone Length:	1m (3,2ft)
End of Line Resistor:	1kohm (included)
Short Circuit Current:	0.5mA
Power Requirements:	24Vdc (Min 12Vdc Max 36Vdc)
Ground Fault Impedance:	0 ohms
Communications:	Two wire RS-485 Modbus RTU (field wiring limited to same room to comply with UL listing)
Sounder:	2.4kHz 92Db @ 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 photo-transistor output Max V: 35Vdc Max Current: 80mA Max Power Dissipation: 150mW

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
ZI-02	Proline ZI-02 Control Unit, 2 Zone, 1m to 3000m (10,000ft)