



## Key Features

- UL 864 10<sup>th</sup> 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

## Overview

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.

## Technical Data

<b>Approvals</b>	CE Marked, RoHS Compliant, UL 864 approved File No S36572
<b>Dimensions</b>	H180mm x W120mm x D60.5mm (H7.1in x W4.72in x D2.38in)
<b>Rating</b>	NEMA 4, 4X (IP65)
<b>Finish</b>	Light Gray with clear lid
<b>Display</b>	2 line, 16 character backlit display showing zone status
<b>Normal Operation (Standby)</b>	<15mA to <5mA
<b>Alarm</b>	<40mA to <15mA
<b>Operating Temperature Range</b>	-20°C to +50°C (-4°F to +122°F)
<b>Supervised Circuits</b>	Power, Input Zone 1 & Input Zone 2
<b>Inputs</b>	Up to two zones of Proline Digital LHD Cable 3000m
<b>Max Zone Length</b>	3000m (10,000ft)
<b>Min Zone Length</b>	1m (3,2ft)
<b>End of Line Resistor</b>	1kohm (included)
<b>Short Circuit Current</b>	0.5mA
<b>Power Requirements</b>	24Vdc (Min 12Vdc Max 36Vdc)
<b>Ground Fault Impedance</b>	0 ohms
<b>Communications</b>	Two wire RS-485 Modbus RTU (field wiring limited to same room to comply with UL listing)
<b>Sounder</b>	2.4kHz 92Db @ 10cm Buzzer
<b>Alarm</b>	2x Form C volt-free relay contacts (resistive, common) Max V: 30Vac or 42.4Vdc Max Current: 2A Max Switching Power: 60W, 62.5VA
<b>Fault</b>	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)