



Key Features

- Dual zones, can monitor 2 digital cables up to 1,000m each ✔

- Interlock/coincidence detection ✔

- Displays distances to the alarm point in meters ✔

- RS-485 communication ✔

- EN54-28 approved ✔

Overview

The Digital Sensor Control Unit is an EN54:28 approved dual zone module for monitoring up to two zones of ProReact EN 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 ProReact EN 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 an industrial process control system using the two wire RS485 Modbus RTU output.

Tech Specs

Dimensions (W x H x D)	120mm x 180mm x 60.5mm (4.72" x 7.08" x 2.38")
IP Rating	NEMA 4, 4X (IP65)
Finish	Light grey with clear lid
Display	2 lines, 16 character back-lit display showing zone status
Approvals	EN54-28:2016
Power Requirements	All circuits power limited if powered from a power limited supply

Tech Specs

Operating Voltage	12Vdc 24Vdc 36Vdc
Normal Operation (Standby)	<15mA <7mA <5mA
Alarm	<40mA <23mA <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 ProReact EN Digital LHD Cable, 1000m per zone
Max Zone Length	1000m (3,280ft)
Min Zone Length	1m (3,2ft)
End of Line Resistor	3.6kohm (included)
Short Circuit Current	0.5mA
Max Voltage	5V
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 photo-transistor output (resistive, common) Max V: 35Vdc Max Current: 80mA Max Power Dissipation: 150mW

Ordering Information

Part Number	Description
18-400	EN Digital Sensor Control Unit, 2 Zone, 1m to 1000m per Zone, 12 - 36Vdc