



Key Features

Supports two zones of up to 1000m



EN54-28:2016 approved



Provides accurate location of overheat event



Full fault monitoring



CE marked



Overview

The FyreLine EN54 Fixed Controller is a dual zone module that is capable of monitoring up to two zones of FyreLine EN54 Fixed Linear Heat Detection (LHD) Cable. The FyreLine EN54 Fixed Controller continuously monitors up to two zones of fixed LHD cable for a fault (open circuit) or an alarm (overheat or fire condition).

If an overheat or fire situation is triggered, the FyreLine EN54 Fixed Controller unit sends a signal of alarm to the fire alarm control panel and automatically calculates and displays the distance along the cable to the alarm point, giving the end user the exact location of the event.

Each zone can operate independently 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 Fixed Linear Heat Detection cable and a conventional or addressable fire alarm control panel and has power, fault and alarm lights, as well as volt-free outputs for fault and alarm, corresponding to each zone.

The FyreLine EN54 Fixed Controller may also be connected to an industrial process control system using the two wire RS-485 Modbus RTU/ASCII output.

If a fault is detected, the corresponding fault output stops conducting, triggering a fault at the fire alarm control panel. The fault outputs also stop conducting on power loss to the unit or microprocessor fault, also triggering a fault at the fire alarm control panel.

Tech Specs

UL Model Number

FLDC-EN54

UL File Number

S36489

Tech Specs

Revision	1.9.2-EN
Approvals	EN54-28:2016
Dimensions (W x H x D)	120mm x 180mm x 60.5mm (4.72" x 7.08" x 2.38")
Rating	NEMA 4, 4X (IP65)*1
Finish	Light grey with clear lid
Display	2 lines, 16 character back-lit display showing zone status
Power Requirements	All circuits power limited if powered from a power limited supply
Operating Voltage	12V DC, 24V DC 36V DC
Current Consumption Normal Operation (Standby)	@ 12V: <15mA @ 24V: <7mA @36V: <5mA
Current Consumption Alarm	@ 12V: <<40mA @ 24V: <23mA @36V: <15mA
Operating Temperature Range	-20°C to +50°C (-4°F to +122°F)*2
Terminal Block Spacing	5mm Rising Clamp
Terminal Block Rating	16A
Wire Size	0.08mm ² (28AWG) to 4mm ² (11AWG)
Supervised Circuits	Power, Input Zone 1 & Input Zone 2
Inputs	Up to two Class B zones of FyreLine EN54 Fixed LHD Cable
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 Output	Two wire RS-485 Modbus RTU/ASCII

Tech Specs

Sounder	2.4kHz 92dBa @ 10cm Buzzer
Alarm Output	2x Form C volt-free relay contacts (resistive, common) Max V: 30V AC or 42.4V DC Max Current: 2A Max Switching Power: 60W, 62.5VA
Fault	2x Optoisolated photo-transistor output (resistive, common) Max V: 35V DC Max Current: 80mA Max Power Dissipation: 150mW

*1 Outside the scope of EN54-28:2016, not verified by UL.

*2 Verified by UL to EN54-28:2016 Environmental Group II between -10°C to +55°C.

Ordering Information

Part Number	Description
18-400	EN54 Fixed Controller, 2 Zone, 1m to 1000m, 12 - 36Vdc, EN54-28