

PISO-3A

Isolator Module

Description

PISO-3A is an addressable module, it has isolation function in the automatic fire alarm system. Once a short circuit occurred within the loop, the isolator module in the circuit will automatically isolate part of the faulty circuit segment in the loop line, and to ensure that the other devices in the loop circuit system can still function normally.

When the fault is repaired, the isolation module and the isolated loop will return back to the normal monitoring state.



Features

- Isolator LED.
- Detects wiring short-circuits using patented technology.
- Minimizes disruption from short circuits.
- Automatic de-isolation on short-circuit removal.
- Up to 20 detectors (or equivalent) may be installed between isolators.

Specifications

Rated Voltage: 24VDC.

Operating voltage: 17V - 28V DC.

Communication Protocol Voltage: 5V – 9V peak to peak.

Quiescent Current: 35µA.

Surge Current: 0mA.

Maximum Current Drawn: 8.5mA.

Maximum Line Impedance: 50Ω.

Installation Temperature: -30°C ~ 70°C.

Humidity: 0% - 95%RH (non-condensing).

Dimension: 33mm length × 34mm width × 102mm height.

Materials: White flame-retardant polycarbonate and Nylon.

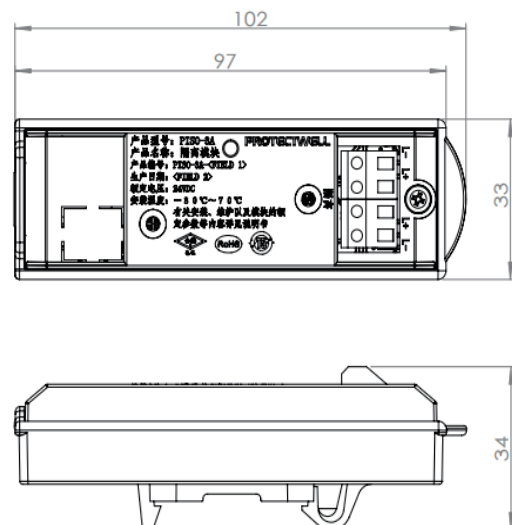
Weight: 35g.

Terminal

The connect terminal L-, L+ is for connecting the loop wire.

- L- is “Loop -”,
- L+ is “Loop +”.

Dimensional Drawing



Status Indications

Legend	LED Status	Description
Isolator	Continuous Yellow	Isolating LED

Electrical Consideration

The rated voltage of Isolator module is 24V DC.

Mechanical Construction

The component parts of the Isolator module are moulded in a robust fire-retardant polycarbonate and Nylon.

The Isolator Module is designed to be mounted on a 35mm width DIN-Rail inside an enclosure.

NOTE: *This unit is not designed for outdoor use.*