

# MAINS I/O

## 1 Channel Input/Output Module



## Overview

The MAINS I/O Modules are fully monitored loop powered devices which permit the interfacing of third party equipment with the Fire Alarm Control panel using normally open dry contact connections. The connection to the input is monitored for fault (open or short circuit) and Alarm conditions.

The interface is used to monitor the contacts of an external system which must be interfaced to the Fire Alarm System, for example a Flow Switch in a sprinkler system to indicate if the sprinklers have been activated or extinguishant level monitoring in Gas Extinguishing systems, etc.

Module is provided with a loop short-circuit isolator and with a voltage free single pole change over mains rated output. The output relay is always powered directly from the detection loop. It is not required to use an external 24V DC power supply. Relay operation is confirmed by an onboard red LED.

A 8 way D.I.L. switch is provided to configure the module's address. This value can be set in the range 1 to 125. The following programmable functions are available: Input Activation Mode, Delayed Input Alarm Activation, Output Delayed Activation.

## Features

- Fast Activation Response
- Loop Powered
- Five Status LEDs provided
- Low Power Consumption
- Module features an integral short-circuit loop isolator
- Single mains rated relay contact

## Technical Specifications

| Feature Description          | Specification                  |
|------------------------------|--------------------------------|
| Power Supply                 |                                |
| Supply Voltage               | Loop Powered – 17 V to 30 V DC |
| Loop Current – Quiescent     | 1.3 mA                         |
| Loop Current – Alarm         | 2.9 mA                         |
| Loop Current – Fault         | 2.9 mA (SC) – 2.6 mA (OC)      |
| Loop Current – Output Active | 2.8 mA                         |
| Max. Cable Size              | 2.5 mm <sup>2</sup>            |
| Output                       |                                |
| Output Relay Contact Rating  | 8A 250 V AC/ 30 V DC           |

| Feature Description   | Specification                |
|-----------------------|------------------------------|
| Physical              |                              |
| Dimensions            | 90 (L) x 150 (W) x 32 (H) mm |
| Case Material         | ABS                          |
| Weight                | 210 g including packaging    |
| Environmental         |                              |
| Operating Temperature | -10°C to +50°C               |
| Humidity / Protection | Max. 95% no condensation     |

NOTE: For EN54-13 compliance, please check the control panel manual specifications.

## Ordering Information

| Order Code | Part No.      | Description                             |
|------------|---------------|-----------------------------------------|
| MAINS I/O  | 1328-CPR-0545 | Electrical Mains Switching Input/Output |

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