

RELAY OUTPUT MODULE



S-A4050

DESCRIPTION

SHIELD Relay Output Module provides a single - 2 pole changeover relay.

INSTALLATION

These products must be installed in accordance with the applicable NFPA standards, local codes and jurisdictional authorities. Failure to follow these instructions may result in failure of devices to report an alarm condition. Shield is not responsible for devices which are improperly installed, maintained and tested.

Before installing these products, check the continuity, polarity and insulation resistance of all wiring. Check that siting is in accordance with the fire system drawings and conforms to all applicable local codes such as NFPA 72.

Mount the electrical box as required, applying pad, to the rear of the electrical box, and install all cables for termination. Where applicable ensure that cable shield/earth continuity is maintained.

Drill holes in the fascia plate corresponding to the holes on the mounting box selected.

Terminate all cables in compliance with local codes and regulations.

Set the address of the module.

Gently push the completed assembly towards the mounting box and align the fixing holes. Secure the unit with the screws provided. Do not over tighten the screws. Commission the module.

FEATURES

- Loop-powered.
- Can be placed anywhere on loop.

TECHNICAL DATA

Operating Voltage	17 - 28 V DC
Modulation Voltage	5-9 V (peak to peak)
Signal Line Circuit (SLC)	Supervised
Temperature Range	0°C to 49°C
Humidity	10-93% RH non-condensing
Supervisory Current	0.85 mA
Surge Current	2.5mA
Maximum Alarm Current	3.5 mA (LED On)
Max Line Impedance	50Ω max
Relay output	Non supervised, dry contact 24 V DC, 2 A; 30 V AC, 0.5 A
Dimensions (WxHxD)	101.6 mm x 101.6 mm x 25.4 mm

FUNCTIONAL TEST DATA

Output Bit	Function	Input Bit	Function
2	Alarm LED 1 = On 0 = Off	2	Alarm LED Confirmation 1 = On 0 = Off
1	Not Used	1	Not Used
0	Relay Control 1 = On 0 = Off	1	Relay Control 1 = On 0 = Off



RELAY FUNCTIONALITY

The relay is operated by setting output bit 0. If the supply voltage is removed, the relay will not change state. When the Relay Output Module is powered up, the relay will be in the same state as it was prior to the module being switched on but the module will respond to output bit 0 four seconds after power has been applied. If the module has not been interrogated, a relay reset will automatically be applied.

Fig. 1 - Mounting the Relay Output Module

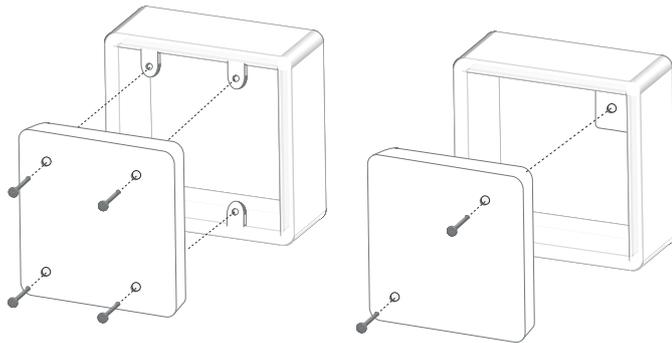


Fig. 2 - DIL Switch



Fig. 3 - Wiring Diagram for Relay Output Module
 Outgoing Communications Loop = SLC Out
 Incoming Communications Loop = SLC In

