

120 VAC I/O MODULE



S-A4049

DESCRIPTION

SHIELD 120VAC Input/output Module is a loop powered device which incorporates a monitored input circuit for connection to dry contacts, as well as a 4A rated dry contact relay output. It is mounted in a plastic fascia plate for use with a 4” square or 2 gang electrical back box.

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.
- Visible LED's.
- 4A rated dry contact.

TECHNICAL DATA

Operating Voltage	17 - 28 V DC
UL Listed to operate	20 - 28 V DC
Signal Line Circuit (SLC)	Supervised
Temperature Range	0°C to 49°C
Humidity	10-93% RH non-condensing
Designed to	24 V DC Nominal
Modulation Voltage	5-9 V (peak to peak)
Supervisory Current at 17V	<0.95 mA
Alarm Current at 17V	<2.8 mA
Supervisory Current at 28V	<0.95 mA
Alarm Current at 28V	<3 mA
Maximum Alarm Current	<5 mA - LED on
Wiring Styles	Class A and Class B
Voltage	10 V DC
Current	1.7 mA max
Line Impedance	100Ω max
End-of-Line Resistors	47 KΩ
Relay output (TB3)	Non supervised, programmable dry contact 30V AC, 4 A (resistive) 120V AC, 4 A (resistive)
Dimensions (WxHxD)	115 mm x 115 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	Self-test (AV64)	1	Indicates Class Wiring 1 = Class B* 0 = Class A
0		1	0

Note: Toggles to '0' in alarm



RELAY FUNCTIONALITY

The relay is operated by setting output bit 0. When powered up, the relay state will initially be unchanged from the state that existed prior to power down occurring. Four seconds after application of a valid DC supply the module will respond to Output Bit 0. If the module has not been addressed at this point, then a relay reset will automatically be applied. When in normal operation, the output state will change within 0.1s of a valid change in the command bit.

Fig. 1 - Mounting the 120 VAC I/O Module

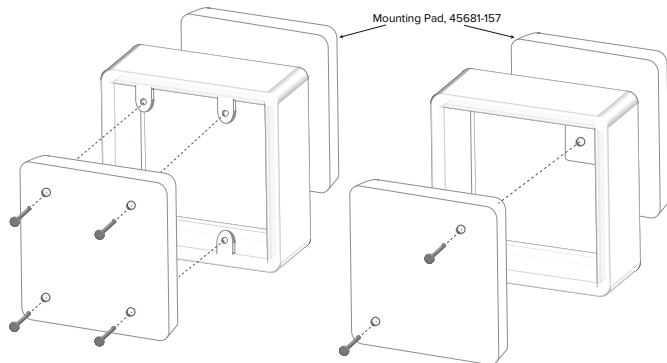


Fig. 2 - DIP Switch

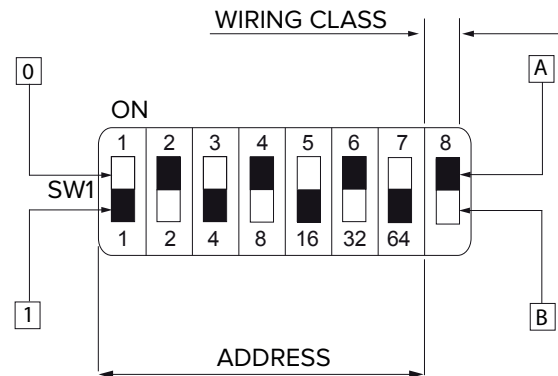
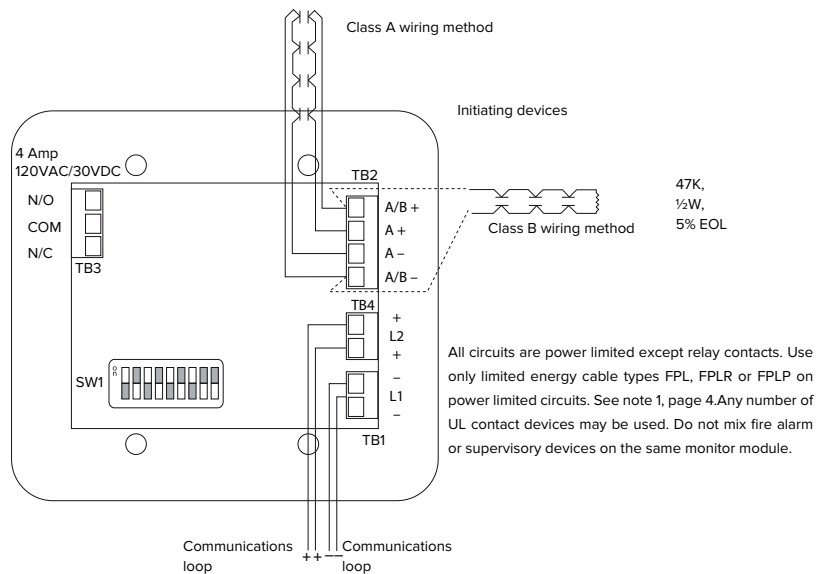


Fig. 3 - Wiring diagram for 120 VAC I/O Module



SIGNALING

