

Fig. 4 Simplified Wiring Diagram

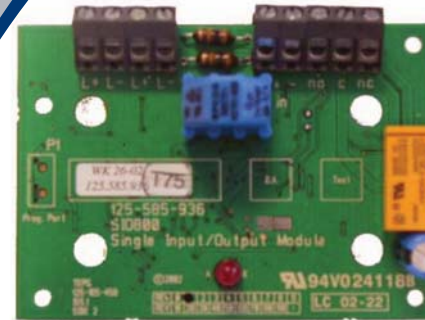


Fig. 1 EV-SIO Single Input/Output Module

## INTRODUCTION

The EV-SIO Single Input/Output Module is designed to provide a monitored open collector input and a volt free relay changeover output.

## FEATURES

- EV-SIO can switch up to 2A @ 24Vdc

## WIRING NOTES

The following notes apply:

- 1) There are no user-required settings (such as switches or headers) on EV-SIO.
- 2) All wiring must conform to the current edition of IEE Wiring Regulations and BS5839 part 1.
- 3) All conductors to be free of earths.
- 4) Verify the correct polarity of wiring before connecting the EV-SIO to the addressable loop circuit.
- 5) For EV-SIO typical wiring configurations (see Figures 4).

## ELECTROMAGNETIC COMPATIBILITY

The EV-SIO complies with the following:  
Product family standard EN50130-4 in respect of Conducted Disturbances, Radiated Immunity, Electrostatic Discharge, Fast Transients and Slow High Energy EN50081-1 for Emissions

## TECHNICAL SPECIFICATION

Type Identification Value:	52
System Compatibility:	Use only with Evolution Fire Alarm Controllers which supports this device.
Environment:	Indoor Application only
Operating Temperature:	-25°C to +70°C
Storage Temperature:	-40° to +80°C
Operating Humidity:	Up to 95% non-condensing
Dimensions (HWD):	85 x 60 x 15mm
Mounting Requirements:	One MK backbox surface mount.
Battery Requirements:	
Standby current:	0.3mA
Alarm current:	3mA
Wire Size:	Min 1.5mm <sup>2</sup> Max 2.5mm <sup>2</sup>
Addressable Device Conditions:	
	- Normal
	- Short Circuit wiring fault
	- Open Circuit wiring fault
	- Device Type invalid
	- Device No Response
Input Circuit:	
EOL:	3k3
Alarm resistor:	680Ω

## ADDRESS SETTINGS

The EV-SIO has a default factory set address of 255, This must be set to the loop address of the device using the EV-AD2 Address Programming Tool. The EV-SIO may be programmed with the address prior to being installed by using the internal programming port (see Fig.2) or after being installed by using the programming port on the front cover (see Fig. 3).

**Note:** Once the address has been programmed, take note of the device location and address number, to include on site drawings.

## CABLING

Cables are to be selected in accordance with the requirements of the current issue of BS5839. A maximum of one 1.5mm<sup>2</sup> or one 2.5mm<sup>2</sup> cable may be connected at any one terminal.

## ASSOCIATED EQUIPMENT

The module fits onto a standard dual-gang MK box.

## ORDERING INFORMATION

EV-SIO Single Input/Output  
Module c/w Cover: F16N82031

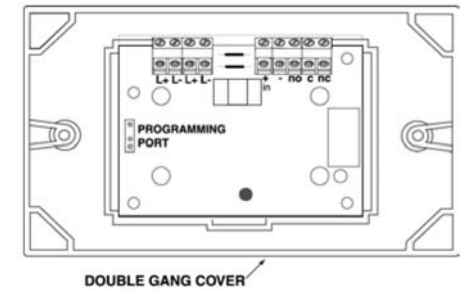


Fig. 2 EV-SIO Fitted to Cover

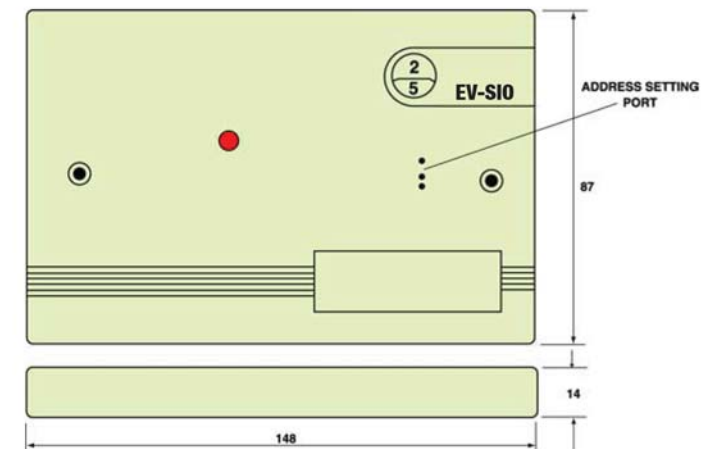


Fig. 3 EV-SIO Single Input/Output Module Facia Plate