Fig. 4 Simplified Wiring Diagram
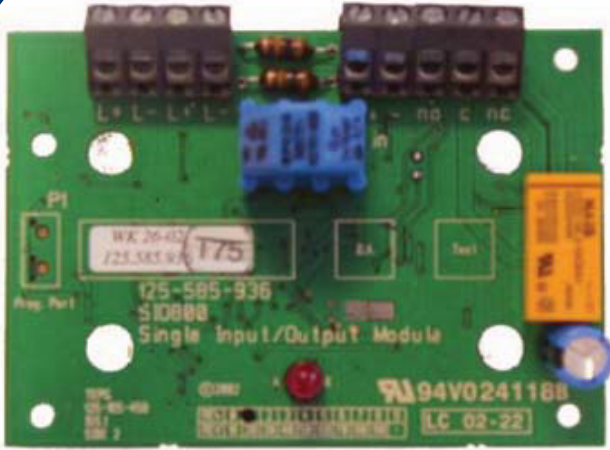

Fig. 1 EV-SIO Single Input/Output Module

INTRODUCTION

The EV-SIO Single Input/Output Module is designed to provide a monitored 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 support this device.

Loop Voltage: 20 - 38 Vdc

Environment: Indoor Application only

Operating Temperature: -25° 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 dual gang backbox surface mount.

Battery Requirements:

Standby current:	0.3mA
Alarm current:	3mA
Wire Size:	Min 1.5mm^2
	Max 2.5mm^2

Addressable Device Conditions:

- Normal
- Input Active
- Output Active
- Input Short Circuit wiring fault
- Input Open Circuit wiring fault
- Device Type invalid
- Device No Response

Input Circuit:

EOL:	3k3
Alarm resistor:	680Ω

Declaration of Performance: 00114

CPR Certificate: 0905-CPR-00114

UKCA Certificate: 0359-UKCA-CPR-00001

ADDRESS SETTINGS

The **EV-SIO** must have its Loop Address programmed prior to installation with the EV-AD2 Programmer, using the Universal Addressing Lead (Two Pin) supplied with the EV-AD2 kit, by connecting Red pin to L+ & Black pin to L- on the reverse of the device. You can also use the EV Module Addressing Lead (Three Pin) via the Programming Port in the front cover (See Fig.3), after the device is installed.

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^2 or one 2.5mm^2 cable may be connected at any one terminal.

ASSOCIATED EQUIPMENT

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

ORDERING INFORMATION

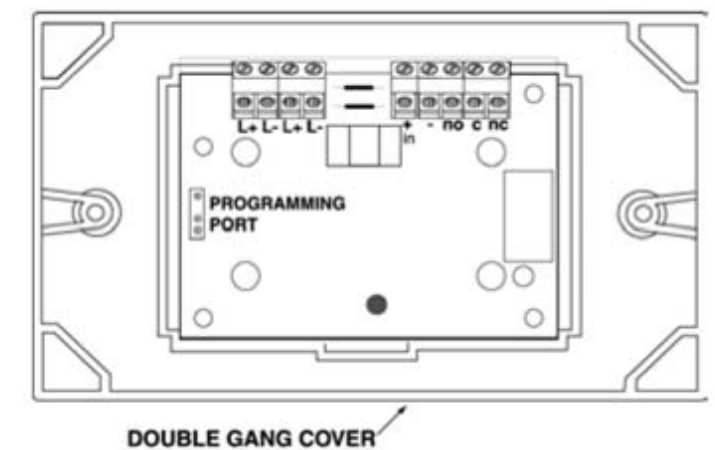EV-SIO Single Input/Output
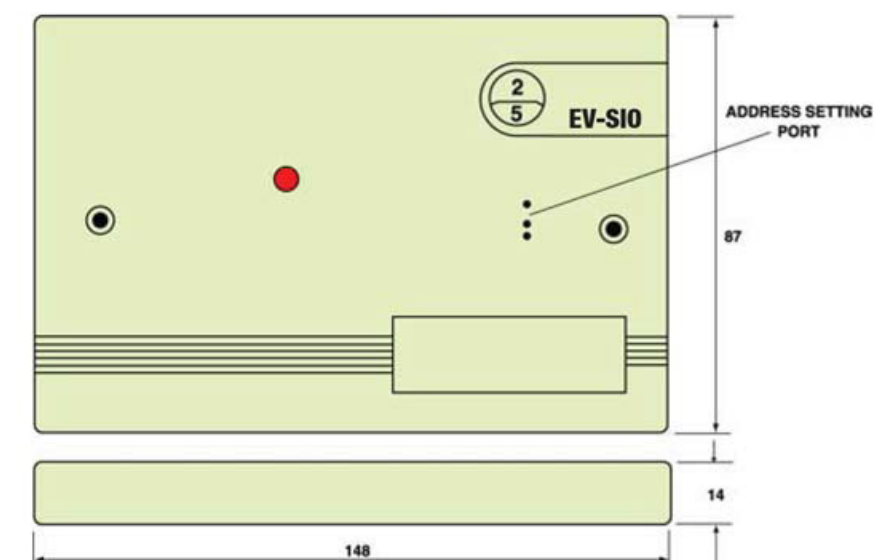Module c/w Cover: F16N82031

Fig. 2 EV-SIO Fitted to Cover

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