

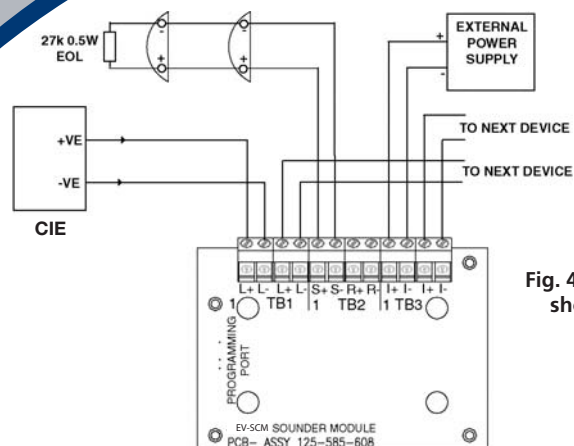


Fig. 4 Simplified Wiring Diagram showing Sounders wired in a Spur Configuration



Fig. 1 EV-SCM Sounder Notification Module

## INTRODUCTION

The EV-SCM Sounder Control Module is designed to provide an output, in response to a command signalled from a controller, to activate a number of polarised and suppressed sounders. The sounders are powered from an independent power supply and the module is capable of passing up to a maximum of 2A.

## FEATURES

Use an EN54 approved PSU, to supply the source power for EV-SCM dc applications:

- EV-SCM can switch up to 2A
- EV-SCM supervises power supply.
- EV-SCM monitors the wiring to signalling devices and will not switch on (even if commanded to do so), if a short circuit occurs. This prevents a single short circuit condition from disabling more than the output that contains the short-circuit.

An LED reports EV-SCM status to the user. The LED lights when the EV-SCM has been commanded to activate.

## TECHNICAL SPECIFICATION

|                                |                                                                                                                                                                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type Identification Value:     | 65                                                                                                                                                                                                                              |
| System Compatibility:          | Use only with Evolution Fire Alarm Panels which support this product                                                                                                                                                            |
| Environment:                   | Indoor Application only                                                                                                                                                                                                         |
| Operating Temperature:         | -25°C to +70°C                                                                                                                                                                                                                  |
| Storage Temperature:           | -40°C to +80°C                                                                                                                                                                                                                  |
| Operating Humidity:            | Up to 95% non-condensing                                                                                                                                                                                                        |
| Dimensions (HWD):              | 87 x 148 x 14mm                                                                                                                                                                                                                 |
| Mounting Requirements:         | One MK backbox surface mount                                                                                                                                                                                                    |
| Wire Size:                     | Min 1.5mm <sup>2</sup><br>Max 2.5mm <sup>2</sup>                                                                                                                                                                                |
| Battery Requirements:          |                                                                                                                                                                                                                                 |
| Standby current:               | 0.75mA max                                                                                                                                                                                                                      |
| Alarm current:                 | 4.5mA max                                                                                                                                                                                                                       |
| Addressable Device Conditions: |                                                                                                                                                                                                                                 |
|                                | <ul style="list-style-type: none"> <li>• Normal</li> <li>• Short Circuit wiring fault</li> <li>• Open Circuit wiring fault</li> <li>• Input Power fault</li> <li>• Device Type invalid</li> <li>• Device No Response</li> </ul> |
| Notification Circuit:          |                                                                                                                                                                                                                                 |
| Max. Circuit Voltage Drop:     | 3.0V dc                                                                                                                                                                                                                         |
| Notification Circuit EOL:      | 27k ohms, 0.5 watt                                                                                                                                                                                                              |
| Output Current:                | 2A max @ 24V dc                                                                                                                                                                                                                 |

## ELECTROMAGNETIC COMPATIBILITY

The EV-SCM 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

## WIRING NOTES

The following notes apply:

- 1) There are no user-required settings (such as switches or headers) on **EV-SCM**.
- 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) All Notification appliances must be polarised and suppressed.
- 5) Verify the correct polarity of wiring before connecting the **EV-SCM** to the addressable loop circuit.
- 6) For **EV-SCM** typical wiring configurations (see Figures 4 and 5).

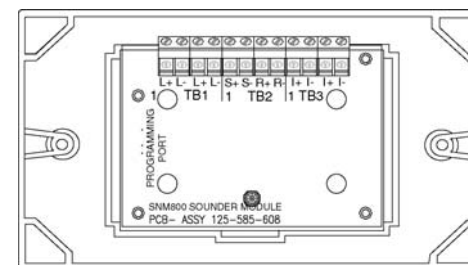


Fig. 2 EV-SCM Fitted to Cover

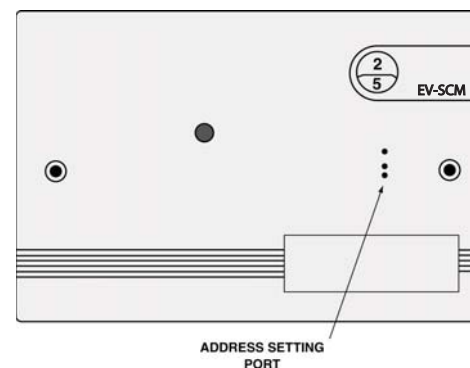


Fig. 3 EV-SCM Sounder Notification Module Facia Plate

## ADDRESS SETTINGS

The **EV-SCM** must be set to the loop address of the device using the EV-AD2 Address Programing Tool. The EV-SCM 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 1.5m<sup>2</sup> or one 2.5m<sup>2</sup> cable may be connected at any one terminal.

## CABLING

The module fits onto a standard dual-gang MK box. The module may drive a **EV-SBM** Sounder Booster Module.

## CABLING

EV-SCM Sounder Control Module F16N82026