

## 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. The Sounder Booster Module may be used in association with any sounder that is polarised and suppressed and to a maximum of 15A per module, The module may be driven by the sounder outputs from:

- Any controller
- An EV-SCM Sounder Control Module
- An EV-SM Sounder Control- Module

## ORDERING INFORMATION

EV-SBM Sounder Booster Module  
c/w with Cover: F16N82028

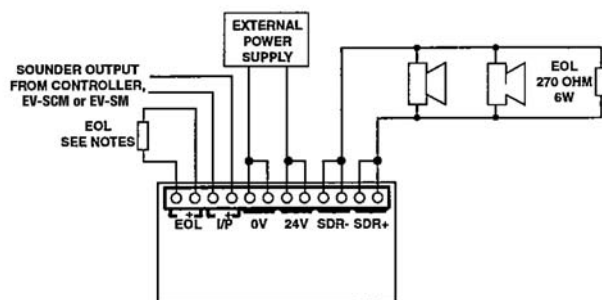


Fig. 3 EV-SBM Simplified Wiring Diagram

**Note:** 1) For EV-SCM, Fit 27K EOL  
2) For EV-SM, Fit 10K EOL

## TECHNICAL SPECIFICATION

<b>System Compatibility:</b>	Use only with Evolution Fire Alarm panels which support this equipment
<b>Environment:</b>	Indoor Applications only
<b>Operating Temperature:</b>	-20° to +70°C
<b>Storage Temperature:</b>	-25° to +70°C
<b>Operating Humidity:</b>	Up to 95% non-condensing
<b>PCB Dimensions (HWD):</b>	84 x 60 x 23mm
<b>Cover Dimensions (HWD):</b>	148 x 87 x 14mm
<b>Mounting Requirements:</b>	One MK backbox surface mount
<b>Wire Size:</b>	Min 1.5mm <sup>2</sup> Max 2.5mm <sup>2</sup>

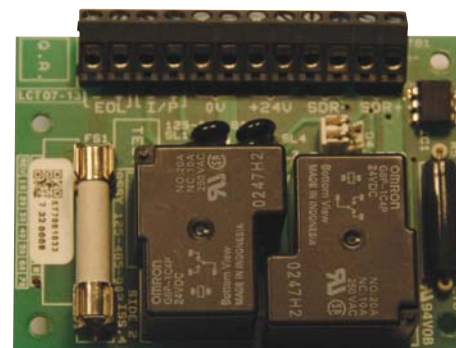


Fig. 1 EV-SBM Sounder Booster Module

## ELECTRICAL CHARACTERISTICS

<b>Current consumption from power supply:</b>	
<b>Quiescent:</b>	85mA
<b>Alarm:</b>	90mA Sounder Driver Relay circuit and EOL current only
<b>Maximum current:</b>	15A@24Vdc (10A max per terminal)
<b>Sounder wiring:</b>	o/c >5k ohm s/c <70 ohm

## INTRODUCTION

Installation of the EV-SBM comprises the following:

- Installation of cables
- Cable continuity
- Installation and Resistance checks
- Installation of ancillary devices and connection

The EV-SBM activates Notification Appliances in response to input from any of several initiating points:

- Sounder output (common alarm) of the controller
- An EV-SCM Sounder Control Module
- An EV-SM Sounder Control Module

## ELECTROMAGNETIC COMPATIBILITY

The EV-SBM complies with the following:  
Product family standard EN50130-4 in respect of Conducted Disturbances. Radiated Immunity Electrostatic Discharge, Fast Transients and Slow High Energy.  
EN 61000-6-3 for emissions

## WIRING & INSTALLATION NOTES

The following notes apply:

- 1) This module requires no address programming since it is not connected to the loop data circuit
- 2) All wiring must conform to the current edition of IEE Wiring Regulations and BS5839 part 1. All conductors to be free of earths.
- 3) Connect terminals I/P+ and I/P- to the driver device (Controller, EV-SM or EV-SCM) Verify correct polarity.
- 4) Connect EOL resistor to EOL terminals (-) and (+), See Notes with Fig. 5.
- 5) Connect the 24V output from the power supply unit to the negative (0V) and positive (24V) terminals.
- 6) Connect the Sounder/Visual notification appliance making sure of the correct polarity. Connect a 270 ohm, 5W EOL device.
- 7) Notification appliances must be equipped with EMC suppression and diode polarisation devices.
- 8) Only use an approved power supply.

*Note: If the unit draws more than 10 amps, then both 0/24v and sdr terminals are to be used.*

## FEATURES

**EV-SBM** increases the current driving capabilities of the controller for high current Notification Appliances (for example, xenon lights or horns) and can pass current up to 15A maximum.

## INSTALLATION TO DOUBLE GANG COVER

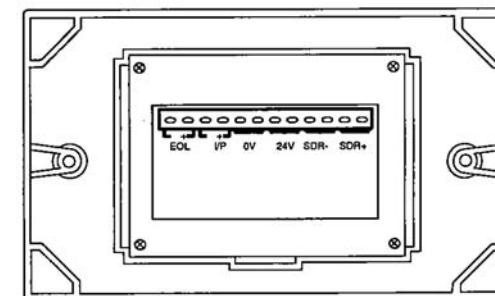


Fig. 2 EV-SBM Fitted to Cover