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.
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**

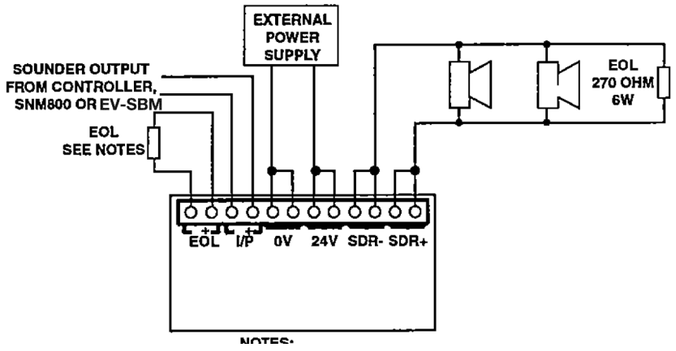

Fig. 3 EV-SBM Simplified Wiring Diagram

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

NITTAN

EV-SBM Module

Installation Leaflet EV-SBM Issue 3

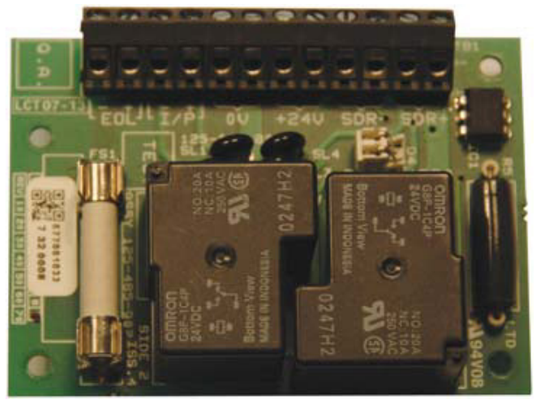

Fig. 1 EV-SBM Sounder Booster Module

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

TECHNICAL SPECIFICATION

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

Declaration of Performance: 00114
CPR Certificate: 0905-CPR-00114
UKCA Certificate: 0359-UKCA-CPR-00001

ELECTRICAL CHARACTERISTICS

Current consumption from power supply:

Quiescent:	85mA
Alarm:	90mA Sounder Driver Relay circuit and EOL current only
Maximum current:	15A@24Vdc (10A max per terminal)
Supply Fuse:	15A 250V 6.3 x 32mm Ceramic Tube
Sounder wiring:	o/c >5k ohm s/c <70 ohm EOL 270 ohm 6W

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. 3.

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, 6W 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.

INSALLATION TO M520 DOUBLE GANG COVER

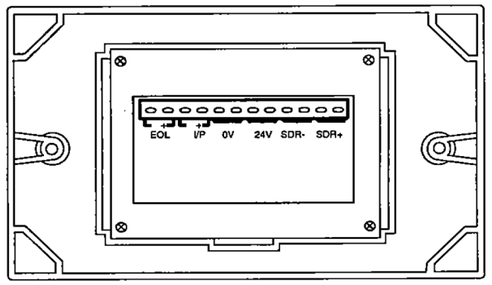

Fig. 2 EV-SBM Fitted to Cover

1) Assemble the **EV-SBM** to M520 Double Gang Cover, using the four screws provided.

2) Fit cover onto MK backbox.