

SNM800 SOUNDER NOTIFICATION MODULE

PRODUCT APPLICATION & DESIGN INFORMATION

INTRODUCTION

The SNM800 Sounder Notification 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 (eg, 40 x 24V dc 50mA company sounders or a mixture of different current rated company sounders not exceeding a maximum loop current of 2A).

The SNM800 Sounder Notification Module is contained on a double-sided Printed Circuit Board (PCB) which is fitted into either an ANC-8 Ancillary housing or to a custom built fascia plate with a protective cover being fitted over the PCB, leaving only the connection terminals exposed. The fascia plate is then fitted onto a standard 2 gang MK box. The SNM800 may also be ordered ready fitted to the fascia plate.

The use of two SNM800 Sounder Notification Modules may be required to satisfy the requirements of BS5839 pt 1 for two independent sounder circuits.

The current capability of the module may be increased by the use of an SB520 Sounder Booster Module (see Publication 17A-02-SB).

The SNM800 may be wired in either a 'spur' (Class B) or 'loop' (Class A) configuration.

MECHANICAL CONSTRUCTION

As stated, the SNM800 Sounder Notification Module is fitted to either an ANC-8 Ancillary housing or to a custom-built fascia plate designed to be mounted onto a standard dual-gang MK box. The dimensions of this fascia plate are given in Fig. 1.

The MK box is surface mounted. Suitable holes are required to be drilled in the box for electrical connection. A cable gland is required for MICC cable and conduit use, whilst a grommet must be fitted when using PVC cable.

The PCB is mounted on the rear of the fascia plate with a protective plastic cover being fitted over the PCB leaving only the connection terminals exposed.

The PCB is fitted with a red LED which extends through the front of the fascia plate and provides indication of unit operation.

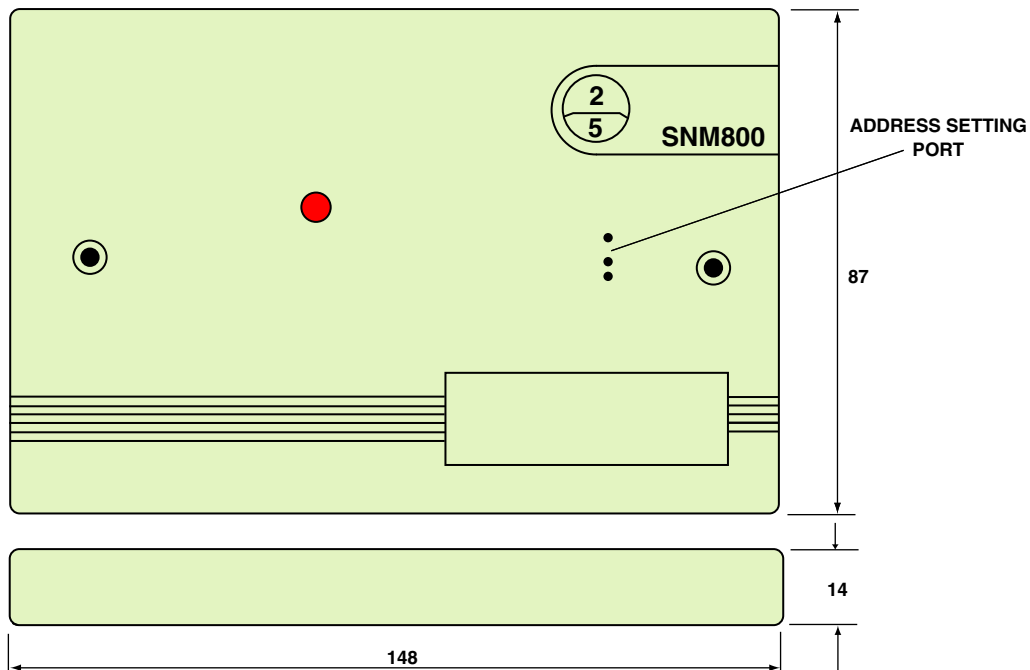


Fig. 1: SNM800

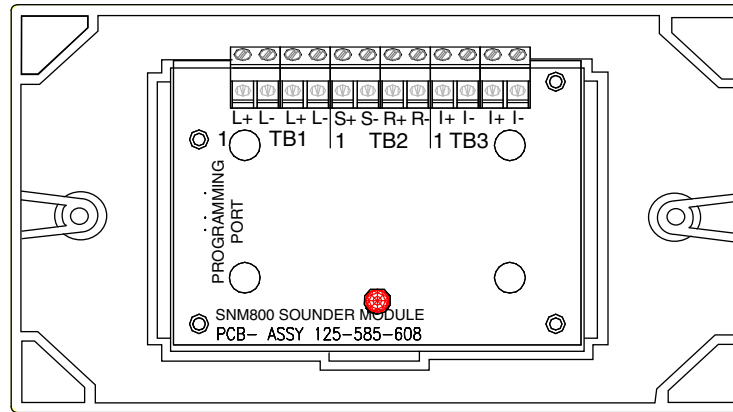


Fig. 2: SNM800 Facia Plate (rear view) showing location of PCB

OPERATION

The SNM800 Sounder Notification Module activates the externally powered sounder[s] in response to a command signalled from the controller. The module is capable of monitoring and signalling the following conditions when the sounder circuit is monitored via a 27k EOL resistor.

- Normal condition.
- Power supply fault, signalled if the external power supply to the module is lost.
- Open or short circuit on the sounder circuit.
- Sounder relay operated correctly.

The red LED is ON when the sounder relay is operated.

TECHNICAL SPECIFICATION

Parameter	Value
Type Identification value	177
Overall Dimensions:	
■ Height	87 mm
■ Width	148 mm
■ Depth	14 mm
■ Weight	100 g
Environmental	
■ Operating Temperature:	-25 °C to +70 °C -40 °C to +80 °C up to 95% RH (non-condensing)
■ Storage Temperature:	
■ Relative Humidity:	
Material	
Housing:	BAYBLEND (Polycarbonate ABS alloy)
Electrical Characteristics	
■ Battery Requirements Standby	0.83 mA max 4.5 mA max 2A max @ 24V dc
■ Alarm:	
■ Output Current	
Notification Circuit	
■ Max. Circuit Voltage Drop:	3.0V dc 27k ohms, 0.5 watt
■ Notification Circuit EOL:	
■ Output Current:	2A max @ 24V dc

Electromagnetic Compatibility

The SNM800 complies with the following:
 Product family standard EN50130-4 in respect of
 Conducted Disturbances, Radiated Immunity,
 Electrostatic Discharge, Fast Transients and
 Slow High Energy
 EN61000-6-3 for Emissions

using the internal programming port (see Fig. 2:) or after
 being installed by using the programming port on the
 front cover (see Fig. 1:).

ASSOCIATED EQUIPMENT

The module fits on to a standard dual-gang MK back box
 or into an ANC-8 Ancillary Housing.

CABLING

Cables are to be selected in accordance with Publication
 17A-02-D and the requirements of the current issue of
 BS5839. Two pairs of connection terminals (L+ and L-)
 are provided on the terminal block. These terminals are
 used for connecting the module on to the addressable
 circuit. A maximum of one 1.5mm² or one 2.5mm²
 cable may be connected at any one terminal.

ORDERING INFORMATION

Name	Order Number
SNM800 Sounder Notification Module:	577.800.005
SNM800 Sounder Notification Module c/w Cover:	577.800.035
M520 Double-Gang Cover:	517.035.007
ANC-8 Ancillary Housing assy:	557.180.096. A.T.Y

Table 1: Ordering Information

ADDRESS SETTING

The SNM800 has a default factory set address of 255,
 this must be set to the loop address of the device using
 the 801AP MX Service Tool. The SNM800 may be pro-
 grammed with the address prior to being installed by

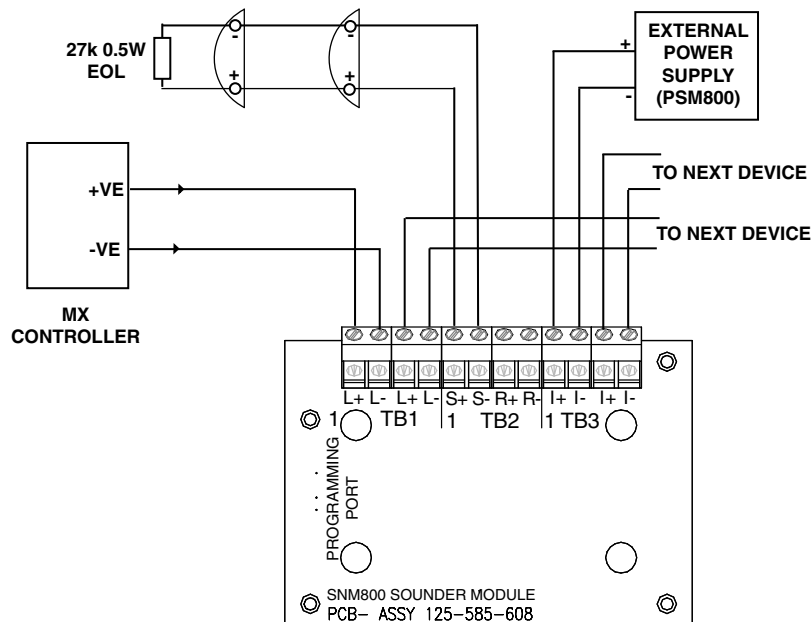


Fig. 3: Simplified Wiring Diagram showing Sounders Wired in a Spur Configuration

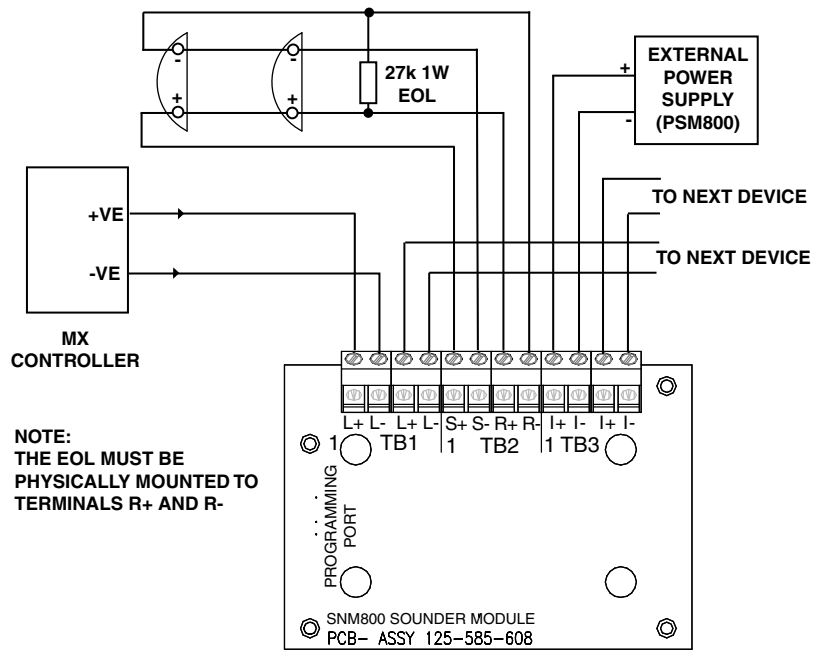


Fig. 4: Simplified Wiring Diagram showing Sounders Wired in a Loop Configuration

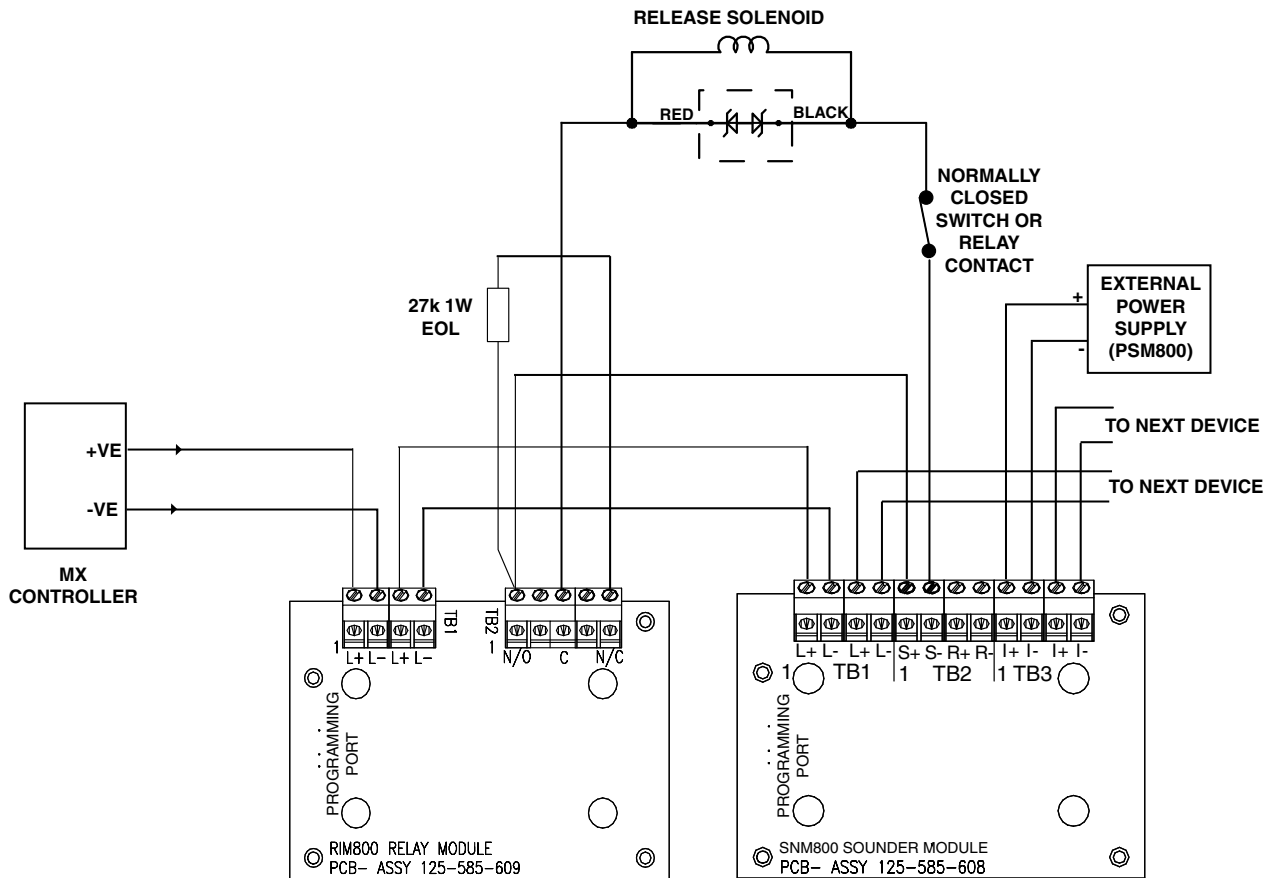



Fig. 5: Simplified Wiring Diagram Showing SNM800 Wired in an Extinguishant Release Configuration

CPR INFORMATION


<p>Tyco Fire & Security GmbH, Victor von Bruns-Strasse 21, 8212 Neuhausen am Rheinfeld, Switzerland</p> <p>15 2831-CPR-F1635 21 0832-UKCA-CPR-F0139</p> <p>DoP-2015-4033</p>
<p>EN54-18: 2005 Input-output device for use in fire detection and alarm systems SNM800</p>
<p>Essential Characteristics EN54-18:2005 Response delay (response time): Pass Performance under fire conditions: Pass Operational reliability: Pass Durability of operational reliability; temperature resistance: Pass Durability of operational reliability; vibration resistance: Pass Durability of operational reliability; humidity resistance: Pass Durability of operational reliability; corrosion resistance: Pass Durability of operational reliability; electrical stability: Pass</p>
<p>Installation Instructions 120.415.526_17A-03-SNM Service Instructions 17A-04-S</p>

