

SNM800 Sounder Notification Module – Installation Instructions



Fig. 1: SNM800 Sounder Notification Module

Technical specifications

Parameter	Value
Type Identification Value	177
System Compatibility:	Use only with MX Fire Alarm Controllers
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 114 x 48 mm
Mounting Requirements	MK backbox surface mount or an ANC-8 ancillary housing
Battery Requirements	
Standby current:	0.75 mA
Alarm current:	4.5 mA

Table 1: Technical Specifications

Parameter	Value
Wire Size	
Min:	1.5 mm ²
Max:	2.5 mm ²
Addressable Device Conditions	<ul style="list-style-type: none"> ■ Normal ■ Short Circuit wiring fault ■ Open Circuit wiring fault ■ Input Power fault ■ Device Type invalid ■ Device No Response
Notification Circuit	
Max. Circuit Voltage	
Drop:	3.0 V dc
Notification Circuit EOL:	
Output Current:	27 k ohms, 0.5 watt 2A max @ 24V dc

Table 1: Technical Specifications (cont.)

Electromagnetic Compatibility

The SNM800 complies with the following:

- Product family standard EN50130-4 in respect of:
 - Conducted Disturbances,
 - Radiated Immunity,
 - Electrostatic Discharge,
 - Fast Transients
 - Slow High Energy,
- EN61000-6-3 for emissions.

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 sounders not exceeding a maximum current of 2A).

Features

The PSM800 Power Supply Module (or equivalent) supplies the source power for SNM800 dc applications:

- SNM800 can switch up to 2A
- SNM800 supervises power supply
- SNM800 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.

The SNM800 may be used in conjunction with a RIM800 in an Extinguishing Configuration. An LED reports SNM800 status to the user. The LED lights when the SNM800 has been commanded to activate.

Wiring notes

The following notes apply:

- There are no user required settings (such as switches or headers) on the SNM800.
- All wiring must conform to the current edition of IEE Wiring Regulations and BS5839 part 1.
- All conductors to be free of earths.
- Fit the PCB to the M520 cover/ANC-8 ancillary housing.
- All Notification appliances must be polarised and suppressed.
- Verify the correct polarity of wiring before connecting the SNM800 to the addressable loop circuit.
- For SNM800 typical wiring configurations (see Figures 3, 4, 5).



Fig. 2: SNM800 Sounder Notification Module Facia Plate

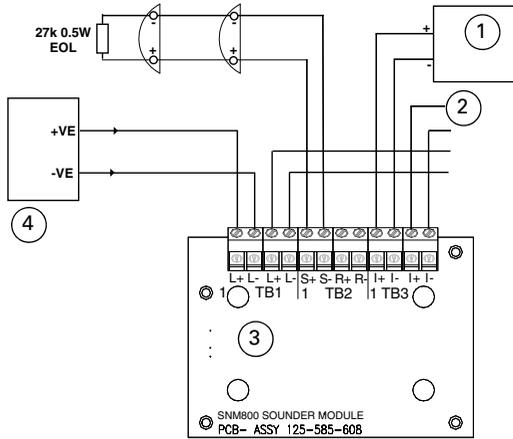


Fig. 3: Simplified Wiring Diagram showing Sounders wired in a Spur Configuration
 1- External power supply
 2- To next device
 3- Programming port
 4- MX controller

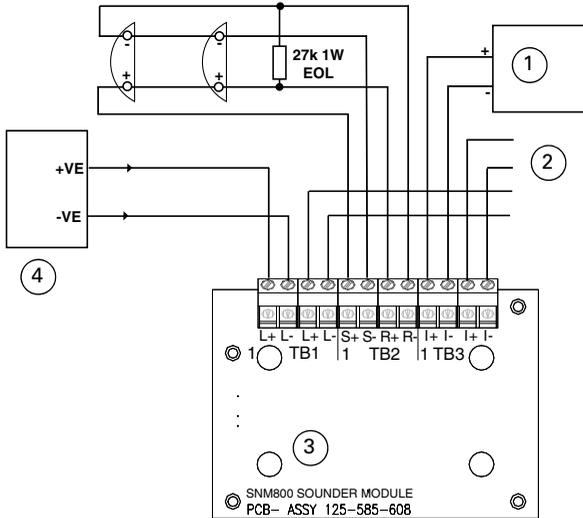


Fig. 4: Simplified Wiring Diagram showing Sounders wired in a Loop Configuration

Note: The EOL must be physically mounted to terminals R+ and R-

- 1- External power supply
- 2- To next device
- 3- Programming port
- 4- MX controller

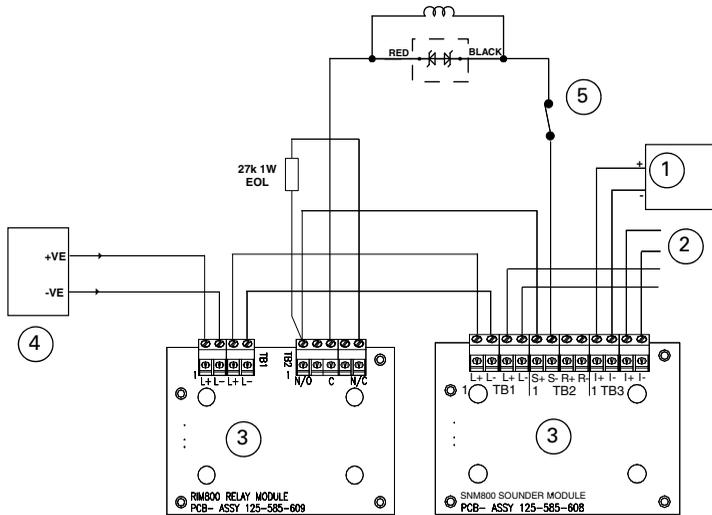


Fig. 5: Simplified Wiring Diagram showing SNM800 wired in an Extinguishant Release Configuration

- 1- External power supply
- 2- To next device
- 3- Programming port
- 4- MX controller
- 5- Normally closed switch or relay contact

Mounting

Installation of modules into an ANC-8 ancillary housing

The housing can accommodate up to eight ancillary PCBs. A stacking kit is available if a second layer of PCBs is required.

How to install MX800 modules into an ANC-8 ancillary housing

- 1 Assemble the required ancillary PCBs onto the chassis plate as required, fixing as shown in Fig. 7.
- 2 Assemble the chassis plate into the housing and secure using fixing screw, see Fig. 6.
- 3 Connect the chassis plate earth lead to the housing, see Fig. 6.

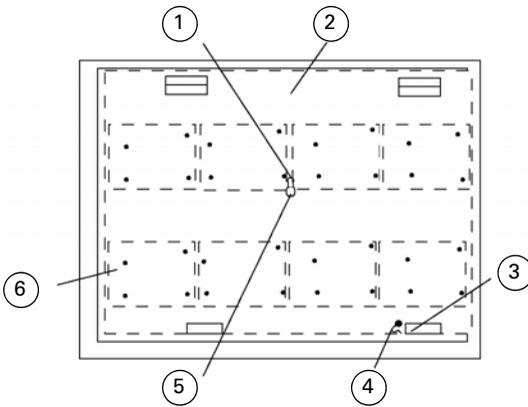


Fig. 6: ANC-8 - Chassis Plate

- 1- Chassis plate fixing screw
- 2- Chassis plate
- 3- Cover earth
- 4- Chassis plate earth
- 5- Transit screw
- 6- Typical position of 800 modules (4 per row)

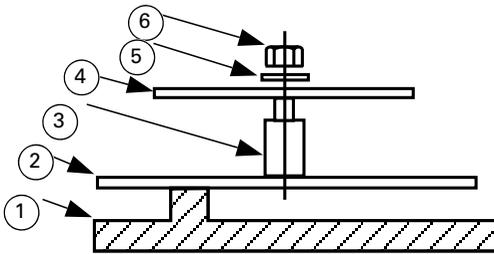


Fig. 7: ANC-8 - PCB Fixing Detail

- 1- Housing
- 2- Plate
- 3- Nylon spacer
- 4- Ancillary PCB
- 5- Plain washer
- 6- Nylock nut

Installation to M520 double gang cover

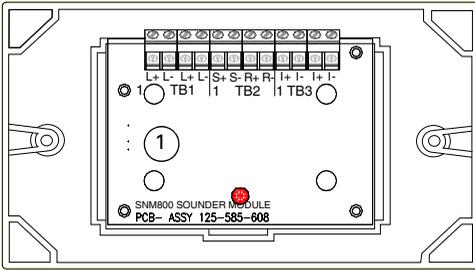


Fig. 8: SNM800 Fitted to Cover 1 - Address programming port

How to install to a M520 double gang cover

- 1 Assemble the SNM800 to M520 Double Gang cover, using the four screws and washers provided,
- 2 Fit cover onto MK backbox.
- 3 If an IP22 rating is required additional sealing must be applied. Apply Loctite S1595 silicone sealant around the LED, as shown in Fig. 9. Note how the sealant fills the small gap between the LED and its hole in the cover. Avoid smearing sealant over the LED surface. Using a fine nozzle is recommended.

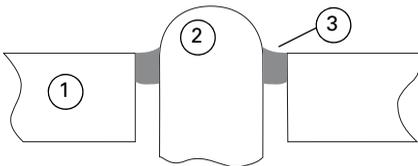


Fig. 9: Sealed LED
 1- Cover
 2- LED
 3- Sealant

Address settings

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 programmed with the address prior to being installed by using the internal programming port (see Fig. 7) or after being installed by using the programming port on the front cover (see Fig. 2 on page 2).



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 Publication 17A-02-D and the requirements of the current issue of BS5839.

A maximum of one 1.5 mm² or one 2.5 mm² cable may be connected at any one terminal.

Associated equipment

The module fits onto a standard dual-gang MK box, or an ANC-8 ancillary housing.

The module may drive a SNB800 Sounder Notification Booster Module.

Ordering information

Name	Stock code number
SNM800 Sounder Notification Module	577.800.005
SNM800 Sounder Notification Module c/w Cover	577.800.035
M520 Cover	517.035.007
ANC-8 Ancillary Housing Assy	557.180.096.A.T.Y

Table 2: Ordering information

CPR Information



0832

Tyco Fire & Security GmbH
 Victor von Bruns-Strasse 21
 8212 Neuhausen am Rheinfall
 Switzerland

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 DoP-2015-4033

EN 54-18: 2005

Input-output device for use in fire detection
 and alarm systems
 SNM800

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

Installation Instructions
 120.415.526_17A-03-SNM
 Service Instructions 17A-04-S