

**INFORMATION SHEET**

**DESCRIPTION**

The 802SB and 901SB MX Addressable Loop sounder bases provide a sounder function for MX addressable systems. They produce a user-selectable tone under control from the MX Control and Indicating Equipment (c.i.e.) via the MX detector or sounder driver (SAB801 or SAM800) plugged into the sounder base. The volume can be adjusted on-site using a special tool. The tone produced is selected via DIP switches and includes the ISO 8201 tone.

The 802SB is loop-powered and up to 200 are supported on the MX loop at low volume (refer c.i.e. details<sup>2</sup>). It is identified by a white park clip.

The 901SB is externally powered by a 24Vdc power source and up to 250 are supported on the MX loop. It is identified by a blue park clip.

**MOUNTING**

The sounder base should be positioned as per the site plan, fixed to a suitable flat surface strong enough to support the weight of the base and detector. Two screws 4mm diameter are required (not supplied) for fixing the mounting flange. Feed the wiring through the mounting flange cable entry hole and secure the flange to the surface. Feed the wiring through the cable entry hole in the sounder base and fit the base to the flange. Connect the wiring as per the diagram on page 2. Do not block the gap between the flange and the sounder base. The detector must be locked onto the sounder base using the detector locking device. Removal of the detector or loss of power to the loop will cause the sounder to cease sounding. It must be fixed to a flat ceiling or a suitable electrical backbox with 50mm fixing centres.

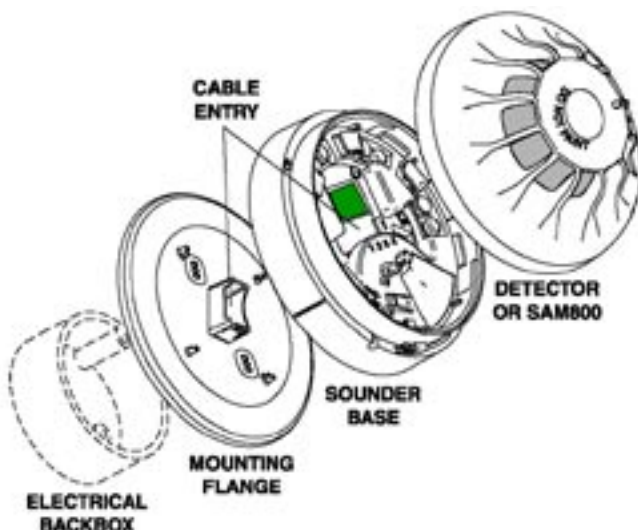


Fig.2. Typical sounder base mounting using backbox



Fig.1. 802SB (above) is identified by a white park clip (902SB is blue).

**SPECIFICATIONS**

	802SB	901SB
Loop Voltage <sup>1</sup>	20V to 40Vdc polarity conscious	
Loop Current		
Standby	200µA typ.	< 5µA typ.
Alarm - 90dBA <sup>3</sup>	6.8mA	< 20µA typ.
Alarm - 68dBA <sup>3</sup>	1.2mA	
External 24V Supply		18 to 28Vdc
Standby	—	200µA typical
Alarm - 90dBA <sup>3</sup>	—	6.8mA
Alarm - 68dBA <sup>3</sup>	—	1.2mA
Dimensions (H x Dia)	37.5 x 110 mm	
Weight	186g	192g
Park Clip Colour	White	Blue
Temperature		
Operating	-25°C to +70°C	
Storage	-40°C to +80°C	
Relative Humidity	Up to 95% (non-condensing)	
<i>Indoor Applications Only</i>		
Part Numbers	802SB	516.800.911

1. Addressable loop voltage provided by MX c.i.e.

2. MX4428/MX1, 4100MXP. Refer to appropriate manual: LT0273 (MXP), LT0313 (4100MXP), LT0360 (MX1-NZ), LT0441 (MX1-Au) for design specifications.

3. Sounder output is quoted for atmospheric pressure of 1000mBar.

## LOCKING KEY

The sounder base features a detector lock facility. A key, inserted into the base as shown, will lock a detector in position. A small screwdriver can be used to depress the locking key through a hole in the detector cover, allowing the locked detector to be removed. The Locking Key part number is 517.050.005 and is available in packs of 100.

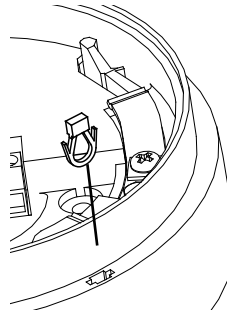


Fig.3. Locking Key

## WIRING

All wiring terminates at the base as follows:

**R:** – Remote

**L:** – In and Out

**L1:** + In and Out & Remote

**L2:** Not Used on Sounder Bases

901SB:

Terminals 1&2: +24Vdc

Terminals 3&4: 0V

Note that alarm zone circuits with more than 40 devices must be wired as a loop and use isolator bases in accordance with the engineering manuals.

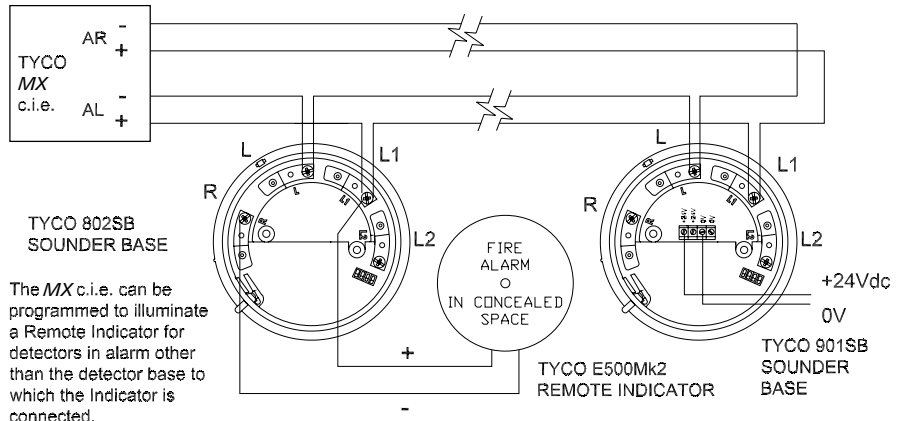


Fig.4. Typical sounder base wiring diagram

## ADJUSTMENT



Fig.5. Tone Selection switches

Fig.6. Volume Adjuster  
(Anti-clockwise to decrease volume)



### Setting Sounder Tone Output Options

DIL Switch Settings				Response Sound
1	2	3	4	
0	0	0	X	Dutch
0	0	1	X	Temporal 4
0	1	0	X	Slow Sweep
0	1	1	X	March Time Beep
1	0	0	X	Fast Sweep
1	0	1	X	Temporal 3 (ISO 8201)
1	1	0	X	Two Tone
1	1	1	X	Continuous

The sounder tone output is set using the 4-way DIL switch; 0 = Off, 1 = On.

The sounder volume setting is set using the trim pot under a label on the side of the sounder. Remove label only when changing the volume. The label must be refitted after any adjustment. If the label is damaged it must be replaced by a new one.

The Factory Settings for volume and tone are:-

Volume - High (fully clockwise)

Tone - Fast Sweep (DIL switch: on-off-off-off)

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