

# 802SB/901SB

## Generation 6 *MX* Detection Range Addressable Sounder Bases



### Features

- Compatible with *MX* Addressable Loop on SIMPLEX 4100ESi, VIGILANT MX1 and VIGILANT MX4428 panels
- *MX* Loop powered 802SB
- External 24V powered 901SB
- Selectable tones - 9 choices including ISO 8201 T3
- Selectable volume
- Compatible with 800, 814, and 850 series detectors

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 Control and Indicating Equipment (CIE.) 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 tones are DIP switch selectable, including the ISO 8201 tone.

The 802SB is loop-powered and up to 250 are supported on the *MX* loop at low volume (refer CIE. 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 Figure 3 on page 2. Do not block the gap between the flange and the sounder base.

### Specifications

Loop Voltage <sup>1</sup>

Loop Current  
Standby

Alarm - 90dBA <sup>3</sup>

Alarm - 68dBA <sup>3</sup>

External 24V Supply

Standby

Alarm - 90dBA <sup>3</sup>

Alarm - 68dBA <sup>3</sup>

Dimensions (H x Dia)

Weight

Colour

Park Clip Colour

Temperature

Operating

Storage

Relative Humidity

*Indoor Applications Only*

Part Numbers

802SB	901SB
20V to 40Vdc polarity conscious	20V to 40Vdc polarity conscious
200µA typ. 6.8mA 1.2mA	< 5µA typ. < 20µA typ.
—	18 to 28Vdc 200µA typical
—	6.8mA
—	1.2mA
37.5 x 110 mm	
186g	192g
White	White
White	Blue

802SB	516.800.911

1. Addressable loop voltage provided by *MX* CIE.

2. *MX1*, 4100MXP. Refer to appropriate manual: LT0273 (MXP), LT0313 (4100MXP), LT0360 (*MX1*-NZ), LT0441 (*MX1*-Au), LT0638 (4100ESi) for design specifications.

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

## Removal

Removal of the detector or loss of power to the loop will cause the sounder to cease sounding. The sounder must be fixed to a flat ceiling or a suitable electrical backbox with 50mm fixing centres.

## Wiring

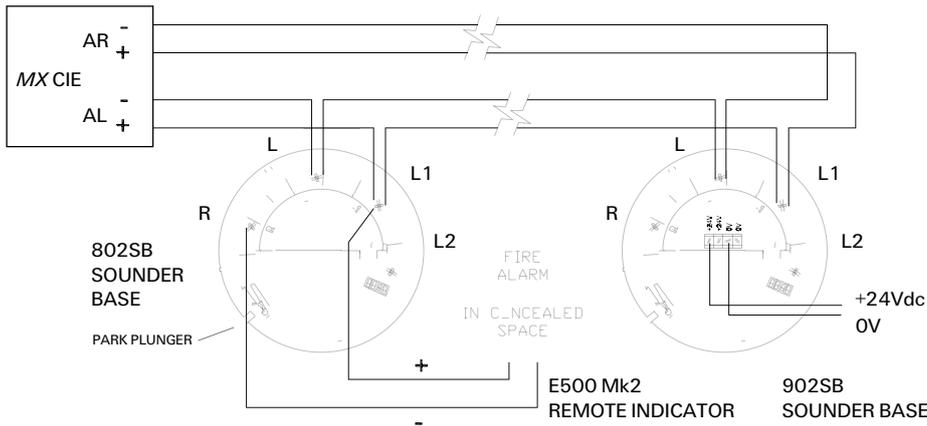
All wiring terminates at the base as follows:

### 802SB:

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: The MX CIE can be programmed to illuminate a Remote Indicator for detectors in alarm other than the detector base to which the Indicator is connected.

Fig.3. Typical sounder base wiring diagram

## Adjustment

Fig.5. Volume Adjuster  
(Anti-clockwise to decrease volume)



Fig.4. Tone Selection switches

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)

### 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.

Australia Level 3, 95 Coventry Street Southbank VIC 3006 Tel: 1300 725 688 Tel: +61 3 9313 9700 Email: tfppcustservice.au@tycofp.com  
New Zealand 17 Mary Muller Drive Hillsborough PO Box 19-545 Woolston Christchurch 8241 Tel: +64 9 635 0617 Email: tsp.sales.nz@tycofp.com

VIGILANT, a respected regional brand of Johnson Controls, is a technology leader in the Australian and New Zealand fire detection markets with AS and NZS product approvals. The VIGILANT product line includes a comprehensive range of MX TECHNOLOGY fire detection products and the market-leading QE90 voice evacuation systems. VIGILANT product is widely supported throughout Australia and New Zealand by a network of installation companies, service companies and distributors.

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