



# Addressable Sounder and Sounder Strobe Devices



Low profile S<sup>3</sup>

System S<sup>3</sup>

These instructions cover the following range of loop wired addressable S<sup>3</sup> devices:

### Low profile range

| Body  | Sounder     |                          | Sounder Strobe (red lens)             |               |
|-------|-------------|--------------------------|---------------------------------------|---------------|
|       | Deep base   | Shallow base             | Deep base                             | Shallow base  |
| White | S3IP-SN-W ~ | S3-SN-W ~<br>SENADV-SN-W | S3IP-SN-ST-WR ~<br>SENADV-IP-SN-ST-WR | S3-SN-ST-WR ~ |
| Red   | S3IP-SN-R ~ | S3-SN-R ~<br>SENADV-SN-R | S3IP-SN-ST-RR ~<br>SENADV-IP-SN-ST-RR | S3-SN-ST-RR ~ |

### Low profile variants

| Sounder Strobe |                              |
|----------------|------------------------------|
| Red            | S3IP-SN-ST-RW ~ (white lens) |
| White          | S3IP-SN-ST-WA ~ (amber lens) |

The S2IP-SN-R3, S2IP-SN-W3 and 78400-03NM products are suitable for retrofitting and are supplied with a 6-way terminal block to ease cable connection.

### System range

| Sounder |                                       |
|---------|---------------------------------------|
| Red     | S2IP-SN-R ~<br>SENADV-IP-SN-R (2-way) |
| White   | S2IP-SN-W ~<br>SENADV-IP-SN-W (2-way) |
|         | S2IP-SN-R3 ~ (3-way)                  |
|         | S2IP-SN-W3 ~ (3-way)                  |
|         | 78400-03NM                            |

**Note:** The system range of products do not support strobe options.



The **Sounder** in all the S<sup>3</sup> product listed above and marked ~ are approved by the Loss Prevention Certification Board and meets the requirements of EN54:Part 3:2001 which is the standard for **Fire Alarm Devices - Sounders**.

The low power addressable **Sounder** and combined **Strobe** products provide audible and visual alarm signals and are designed for use in **Gent** analogue addressable fire alarm system. Each S<sup>3</sup> is supplied with either a deep base (40mm) or shallow base (25mm), offering IP55C and IP31C ratings respectively. In addition to the products covered in this leaflet there are Speech Sounder Strobe and Strobe only variants available, for more information contact your supplier.

The S<sup>3</sup> product range incorporates innovative design features for which design Patents applications are pending. The product design has also been registered.

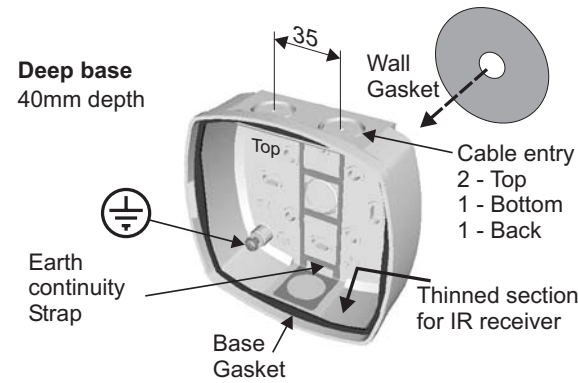
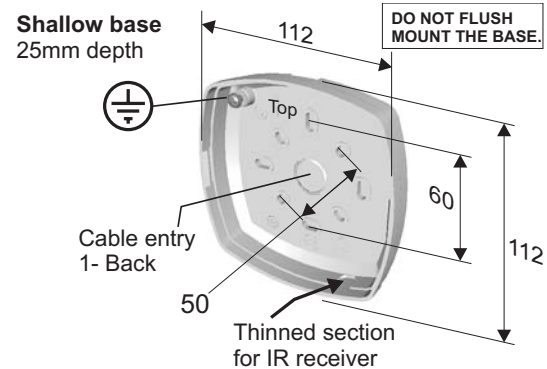
### Do's and Don'ts

#### Do's

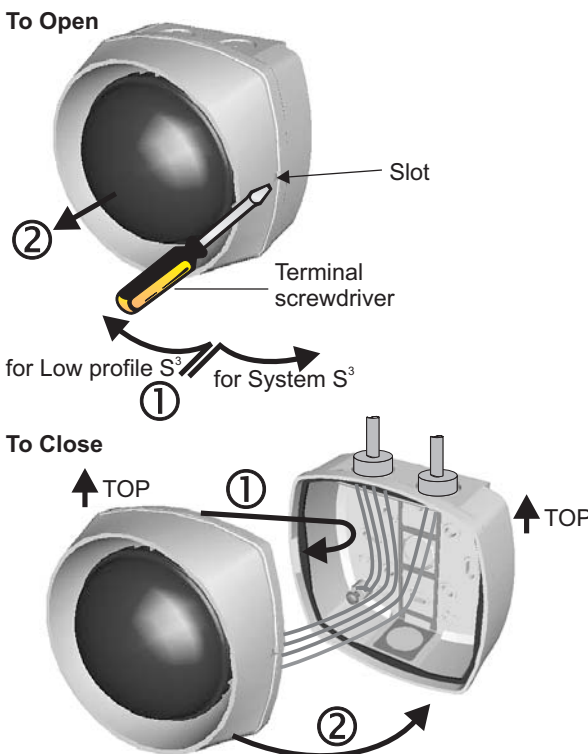
- Ensure your addressable system can accept S<sup>3</sup> products, if in doubt contact your supplier
- Use correct method to open and close the device
- Mount the device in correct orientation with 'TOP' uppermost, to allow remote control operation

- Fit the **wall gasket** first when installing the deep base if IP55C protection is required
  - Ensure the **transparent cover** is in place over the PCB
  - Ensure the **earth continuity strap** is in place in the **deep base**.
- Don'ts**
- Don't flush mount the base
  - Don't have excessive incoming cable slack
  - Don't mount the device above obstructions, such as shelves, that can prevent its operation with the IR remote control
  - Don't install the S<sup>3</sup> device such that the audible and visual outputs are obstructed
  - Don't paint the device enclosure.

### Bases



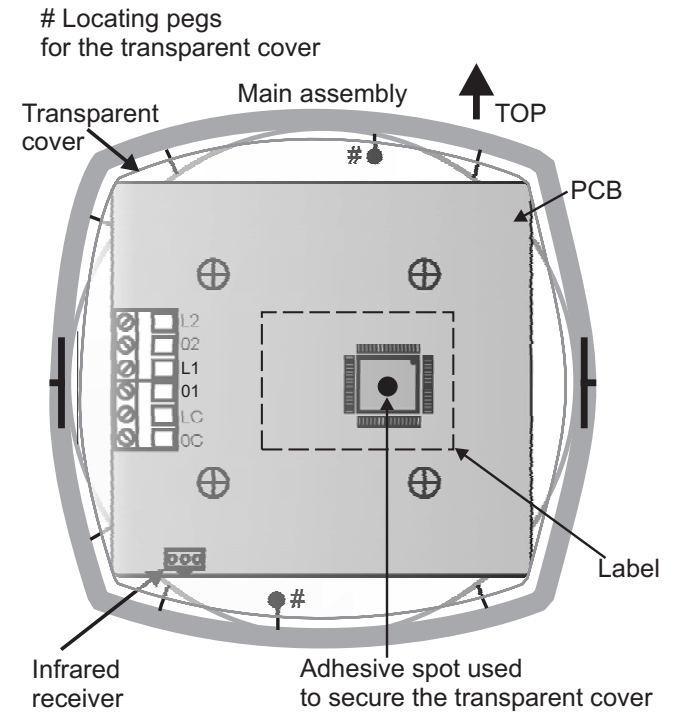
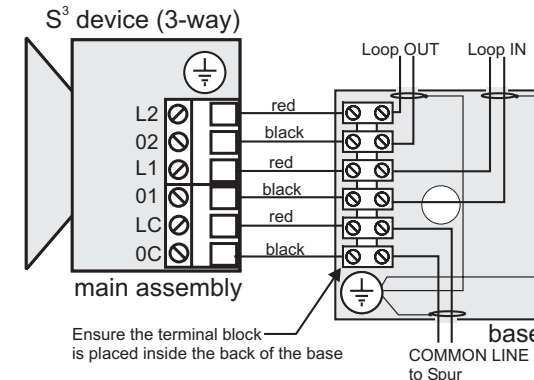
### How to open and close the assembly



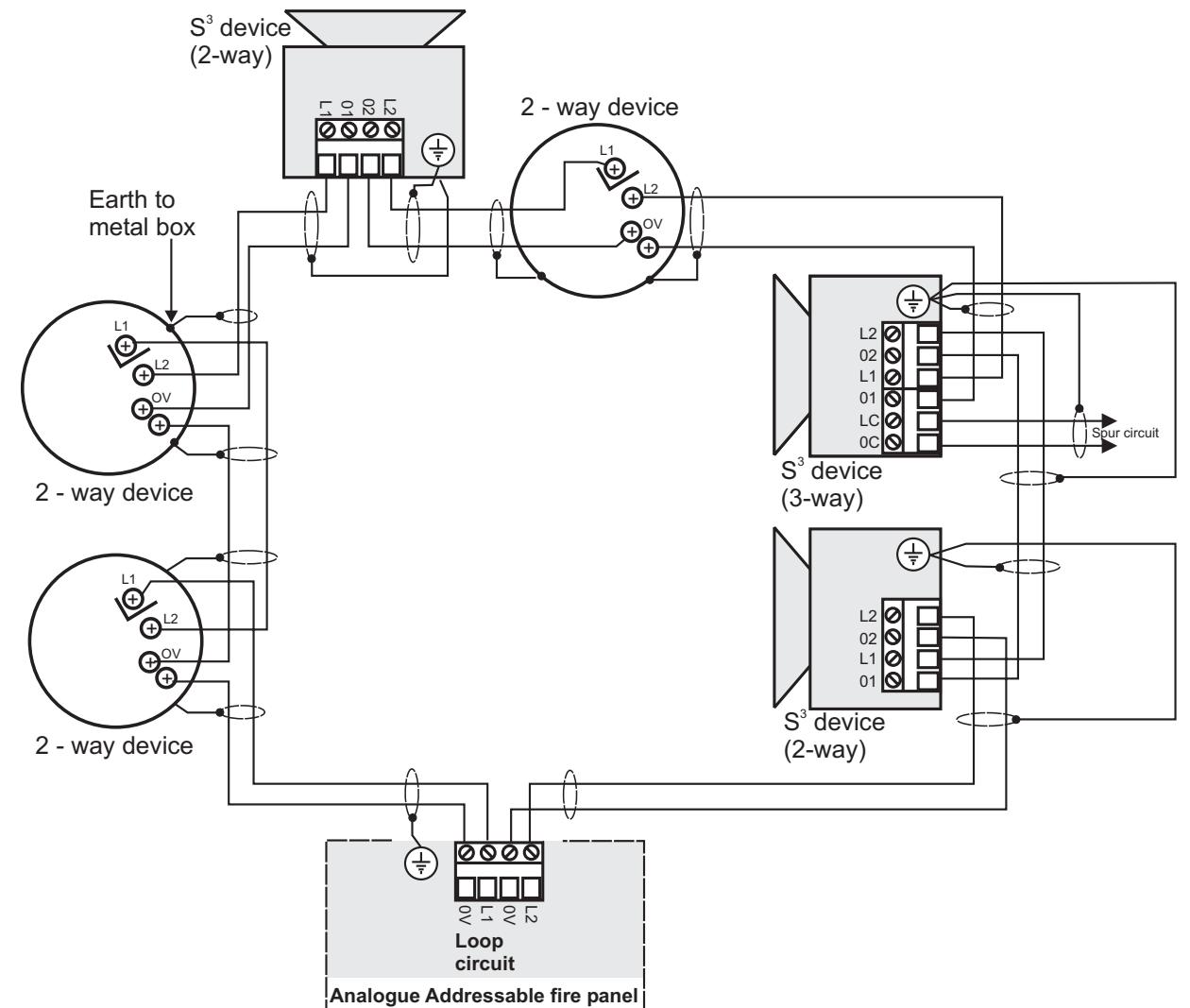
### Installation

- 1 Drill or knockout the required cable entry points on the **Base**.
- 2 If using the deep base option and IP55C protection is required, then stick on the circular **wall gasket** on to the centre back of the **base**.
- 3 Secure the Base to the wall whilst ensuring Top of the Base is in correct orientation.
- 4 Terminate the cable at the entry point leaving no more than 10cm (4") tail wire length for connection.
- 5 Ensure the **transparent cover** is in place over the **PCB**. Connect the wires to the terminal block, see Wiring.
- 6 Close the main assembly to the base.

### Terminal block for retrofit installation of System S<sup>3</sup>



### Wiring



## Operation of sound and strobe light

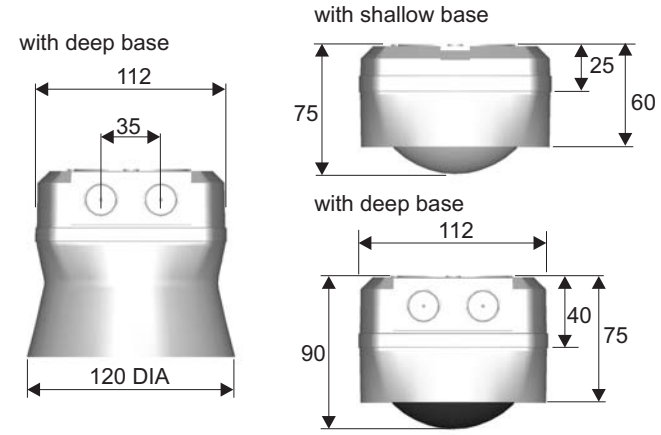
The S<sup>3</sup> devices on each loop circuit of the fire panel are set up during commissioning. The devices are set up to operate the sound and strobe light output in accordance with site specific evacuation procedures.

In the event of a fire the appropriate S<sup>3</sup> device in the system will output standard tone alarm signals 1, 2 or 3:

- Signal 1 is at 0.5Hz strobe output
- Signal 2 is at 1Hz strobe output
- and Signal 3 is at 1Hz strobe output.

The sound configurations of the three signals are held in the panel's memory.

## Technical data



**Note:** If you have a sounder only product then ignore the strobe information given.

|  |   |
|--|---|
| Sound output for standard tone (levels given are <b>typical values</b> with measurement taken at 90° anechoic - fast response) # | Low profile S <sup>3</sup> - 100dBA +/- 3dBA<br>System S <sup>3</sup> - 103dBA +/-3dBA  |
| Panel tones of signals 1, 2 and 3  | configurable at the panel   |
| Standard (Sounder only)  | EN54:Part 3:2001  |
| Strobe flash rate  | Signal 1 - 0.5Hz<br>Signal 2 - 1Hz<br>Signal 3 - 1Hz  |
| Strobe light output with red / amber lens  | equivalent to 3W Xenon flasher  |
| Loop loading factors   | <i>per device</i>   |
| Standard tone  | 5   |
| Standard tone with red or amber Strobe   | 15  |
| Standard tone with white Strobe  | 28  |
| Operating voltage  | range 35V to 41V  |
| Terminal size  | 2.5mm <sup>2</sup> - maximum  |
| IP rating  | with deep base IP55C<br>with shallow base IP31C   |
| Enclosure colour   | White and Red - (with red, amber or white translucent lens cover for the Strobe)  |
| Enclosure material   | Flame retardant ABS (Strobe cover is polycarbonate)<br>The plastic enclosures meet the flammability requirements of ISO 1210:1992 Class FH-2. |
| Weight   | 0.3Kg approximate   |
| Operating temperature  | -10°C to 50°C   |
| Storage temperature  | -20°C to 70°C   |
| Relative humidity (non condensing)   | up to 90%   |
| IR operating distance (used for setting volume)  | 3m  |

The addressable S<sup>3</sup> products are fully synchronised on the same fire panel.

# Information on minimum sound output levels to include polar dispersion is covered in technical note TECH6310\_029, available on request from manufacturer.

Due to on going development of the products the information contained in this leaflet is subject to change without notice.

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