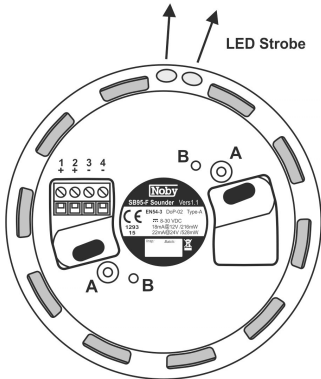
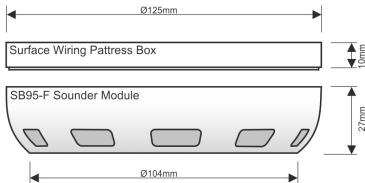




# SB95-F Platform Sounder

with LED strobe light

The SB95-F is a dual voltage 95dB platform sounder suitable for both 12V and 24V systems. With its unique radial horn design the SB95-F is capable of delivering 95dB through a full 360° coverage, making it ideal for combining together with ceiling mounted smoke detectors. The SB95-F features a directional high intensity LED strobe light to provide visual alarm warning whilst assisting with guidance from a smoke filled room.



## Box contents

- 1x SB95-F sounder module.
- 1x Surface wiring pattress box.
- 2x M4x25 screws
- 2x No.6 12.5mm self/tap screws

## Location and mounting

Screw the SB95-F surface wiring pattress box securely onto a flat solid surface, usually the ceiling, taking into consideration the direction of the strobe LEDs. Two arrows marked "LED" indicate the two possible directions of the strobe LEDs when the sounder module is fitted. The perimeter of the surface wiring pattress box is radially segmented to facilitate break-away cable entries from any direction. Attach the SB95-F Sounder Module using the 2x M4x25 screws provided.

For situations where the wiring is hidden it may be preferable to mount the SB95-F sounder module directly onto the ceiling without using the pattress box. In this case affix with two M4 self/tap screws (not supplied) fed through the two holes marked "A", ensuring that the screw heads are flush with the surface so as not to interfere with the detector base.

The SB95-F is intended for indoor use only, and must be sited in a dry environment. Do not site the SB95-F outside, or in any location where it may become exposed to damp or freezing conditions.

## Mounting the detector

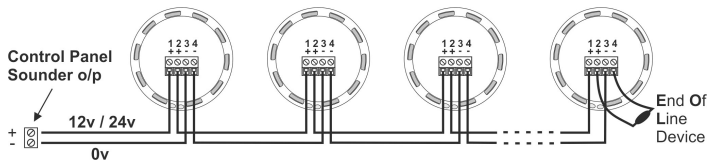
The SB95-F provides a stable platform for most leading brands of industry standard smoke detectors. Screw the detector's base onto the SB95-F using the two No.6 self-tap screws provided, at the holes marked "B".



Do **NOT** drill additional holes in an attempt to fit a non-standard detector onto the platform.

## Sounder circuit connections

Connect the sounders in a straight daisy-chain manner as shown below, with no spurs or loops, and maintaining strict polarity. For guidance, the recommended maximum sounder circuit cable length is 100m, and the total cable resistance must not exceed 10 ohms. Most fire alarm control panels require an End Of Line Device to be fitted at the final sounder on the circuit for fault monitoring purposes.



## Maintenance

Once installed the SB95-F should provide many years reliable service. Routine testing and periodic system maintenance should be undertaken by a competent person and in accordance with local statutory regulations. There are no user-serviceable parts inside the enclosure. The SB95-F should be cleaned with a damp cloth. Avoid the use of detergents, solvents and polish which may react with the plastic enclosure.

| Specification   | Value                  | Unit                 | Comment  |
|---|------------------------|----------------------|--|
| Operating Voltage   | 8 to 30                | VDC                  |  |
| Supply current: Vs=12v<br>Vs=24v  | 18<br>22               | mA<br>mA             | <i>true rms; (Ipk=39mA)</i><br><i>true rms; (Ipk=56mA)</i> |
| Resonant Frequency  | 3                      | kHz                  | +/- 200Hz  |
| Alarm Pulse Rate  | 8                      | Hz                   | <i>62.5ms on;</i><br><i>62.5ms off.</i>                    |
| IP Rating   | IP21C                  |                      |  |
| Operating Temperature   | -10 to 55              | °C                   | <i>95%RH</i>   |
| Overall diameter<br>Platform diameter<br>Depth: sounder module<br>Depth: incl. pattress box | 125<br>104<br>27<br>37 | mm<br>mm<br>mm<br>mm |  |

## **EVPU SPL Test Data**

*Sounder mounted according to EN54-3 Annex A with detector fitted.*

*3m measurements adjusted +9.54dB to give 1m calculated equivalent, according to cl.A.5.3. 0° corresponds to head-on axial view.*

Simulated free field (anechoic chamber):

| <b>Angle</b> | <b>Vs=8v<br/>LAf max</b> | <b>Vs=12v<br/>LAf max</b> | <b>Vs=24v<br/>LAf max</b> | <b>Vs=30v<br/>LAf max</b> |
|--------------|--------------------------|---------------------------|---------------------------|---------------------------|
| -75°         | 81.35                    | 83.06                     | 85.40                     | 85.69                     |
| -45°         | 72.99                    | 73.00                     | 75.13                     | 75.83                     |
| -15°         | 85.61                    | 85.44                     | 85.23                     | 86.15                     |
| 15°          | 86.56                    | 87.14                     | 87.07                     | 86.78                     |
| 45°          | 73.94                    | 78.33                     | 79.56                     | 78.57                     |
| 75°          | 81.47                    | 82.14                     | 83.41                     | 83.03                     |



**1293**

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15

DoP 02

EN 54-3 :2001 + A1:2002 + A2:2006 Fire Alarm Devices - Sounders.

Type A : For indoor use.

Technical Data: SB95-F Technical File held by the manufacturer.

The SB95-F platform sounder meets EN54-3 and IP21C requirements only when used in conjunction with a mounted detector.