

# INSTALLATION INSTRUCTIONS FOR DBS-XXX-14 ELECTRONIC SOUNDER

## GENERAL DESCRIPTION

The DBS-XXX-14 sounder is a low profile high output electronic sounder with 16 tone combinations. The DBS can be used under any smoke detector with 60mm fixing centres and an external diameter of up to 120mm. The sounder's first and second stage sounds are achieved by polarising three - wires, sixteen different tone combinations are selectable via integral DIP switches from fourteen first stage sounds. Sound output and current vary with the sound selected. See Fig 4 & 5 for details of switch settings.

'In' and 'Out' terminals are provided for each contact to allow multiple sounders to be wired without the need to put two wires in one screw terminal.

|          |                                   |
|----------|-----------------------------------|
| Part No. | Description                       |
| DBS-14   | Detector base sounder - no lid    |
| DBS-R-14 | Detector base sounder - red lid   |
| DBS-W-14 | Detector base sounder - white lid |

| SPECIFICATIONS    | 12Vdc        | 24Vdc        | Comments                                   |
|-------------------|--------------|--------------|--|
| Voltage Range     | 10 - 14      | 21- 27       |  |
| Sound Output      | 87dB(A)      | 93dB(A)      | at 1m at 800Hz at 12V and 24V respectively |
| Temperature Range | See comments | See comments | -25°C to +55°C (93%RH at 55°C)             |
| IP rating         | See comments | See comments | IP21C                                      |
| Current           | 12mA         | 25mA at 24V  |  |
| Tones             | See Fig 5    | See Fig 5    | See Fig 5                                  |
| Maximum wire size | See comments | See comments | 2.5 mm <sup>2</sup>                        |

Sounder output data in accordance with EN54-3 is available on request ref:D 531

## WIRING DIAGRAM

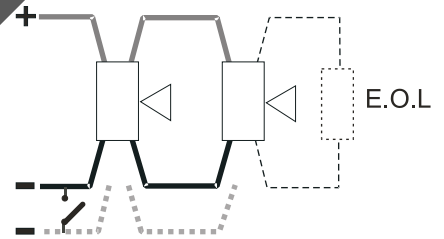
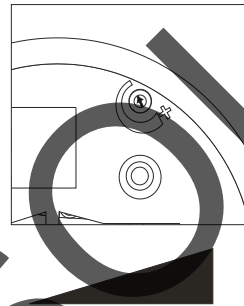
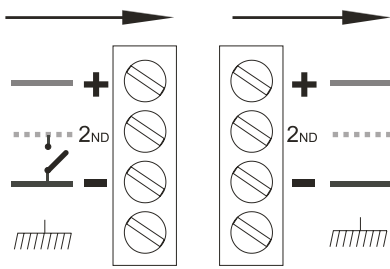


Fig 1

Fig 2

Fig 3

## TONE SELECTION

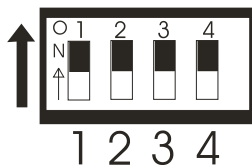
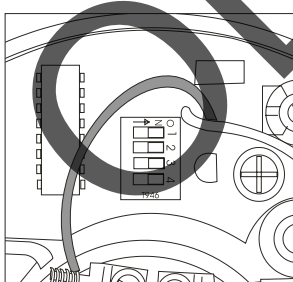


Fig 4

| 1 | 2 | 3 | 4 | Hz   | ① | Hz   | S    | Hz   | ② | Hz   | S    |
|---|---|---|---|------|---|------|------|------|---|------|------|
| ■ | ■ | ■ | ■ | 500  | ▲ | 1200 | 0.15 | 1200 | ▲ | 500  | 0.10 |
| ■ | ■ | ■ | ■ | 2400 | ▬ | 2400 | ▬    | 800  | ▬ | 1000 | 0.05 |
| ■ | ■ | ■ | ■ | 1200 | ▬ | 0    | 0.02 | 1200 | ▬ | 500  | 0.10 |
| ■ | ■ | ■ | ■ | 1200 | ▬ | 500  | 0.10 | 1200 | ▬ | 500  | 0.10 |
| ■ | ■ | ■ | ■ | 800  | ▬ | 800  | ▬    | 800  | ▬ | 1000 | 0.05 |
| ■ | ■ | ■ | ■ | 500  | ▬ | 1200 | 0.50 | 800  | ▬ | 1000 | 0.05 |
| ■ | ■ | ■ | ■ | 800  | ▬ | 1000 | 0.05 | 800  | ▬ | 1000 | 0.05 |
| ■ | ■ | ■ | ■ | 2400 | ▬ | 0    | 0.05 | 1200 | ▬ | 500  | 0.10 |
| ■ | ■ | ■ | ■ | 500  | ▬ | 1200 | 0.12 | 1200 | ▬ | 500  | 1.00 |
| ■ | ■ | ■ | ■ | 2400 | ▬ | 2400 | ▬    | 800  | ▬ | 1000 | 0.50 |
| ■ | ■ | ■ | ■ | 1200 | ▬ | 0    | 0.50 | 1200 | ▬ | 500  | 1.00 |
| ■ | ■ | ■ | ■ | 1200 | ▬ | 500  | 1.00 | 1200 | ▬ | 500  | 1.00 |
| ■ | ■ | ■ | ■ | 800  | ▬ | 800  | ▬    | 800  | ▬ | 1000 | 0.50 |
| ■ | ■ | ■ | ■ | 500  | ▬ | 1200 | 4.0  | 800  | ▬ | 1000 | 0.50 |
| ■ | ■ | ■ | ■ | 800  | ▬ | 1000 | 0.50 | 800  | ▬ | 1000 | 0.50 |
| ■ | ■ | ■ | ■ | 2400 | ▬ | 0    | 0.50 | 1200 | ▬ | 500  | 1.00 |

Fig 5