

# Detector Base Sounder Strobe BSS-PR-x33

Instruction Sheet  
R10041GB0



## **Schneider Electric Fire & Security Oy**

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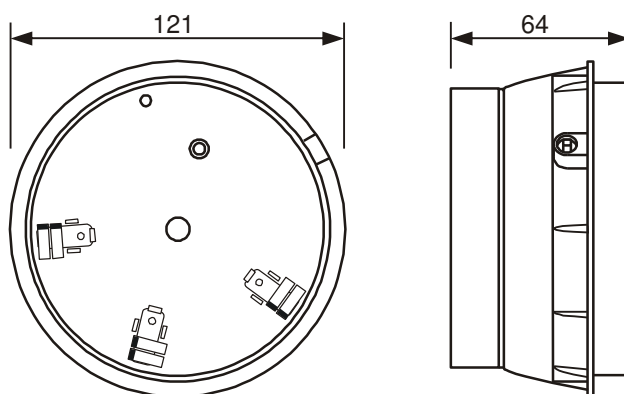
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# 1 Detector Base Sounder Strobe BSS-PR-x33

Intelligent AP200 series alarm devices for Esmi Sense FDP and FX 3NET fire detection system.

The intelligent AP200 series alarm devices are used in the Esmi Sense FDP and FX 3NET fire detection system. They have been designed to reduce significantly the total cost of installation. Product performance has been optimised to allow the maximum permissible number of devices to be installed on an intelligent loop.

## 1.1 Mechanical dimensions



*BSO-PP-xxx, BSS-PR-xxx*

## 1.2 Volume and tone setting (WSO-, BSO- and BSS-)

Volume setting is selected by SW6 and SW7 of the 8 way DIP switch (see table 1). The appropriate tone set is selected by SW1 to 5 of the 8 way DIP switch (see table 2). The 2<sup>nd</sup> stage tone (related to the 1<sup>st</sup> stage tone) is controlled by the fire panel via the protocol.

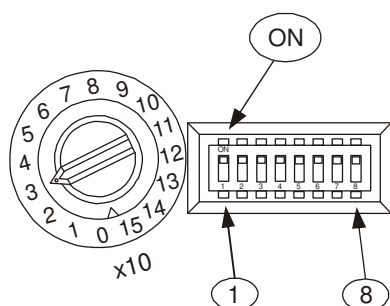


Table 1

| SW6 | SW7 | Volume setting |
|-----|-----|----------------|
| OFF | OFF | High           |
| OFF | ON  | Medium         |
| ON  | OFF | Low            |
| ON  | ON  | Low            |

OFF = 0, ON = 1

Table 2

| DIP setting O=Off/1=On<br>SW 1,2,3,4,5 | No | Pattern      | Nominal<br>Frequency | Switching<br>Frequency                                                                                                                                                                                                 | Description                                 | Standard               | 2 <sup>nd</sup> Stage<br>Tone |
|----------------------------------------|----|--------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------|-------------------------------|
| 0,0,0,0,0                              | 1  | Alternating  | 554/440              | 2Hz<br>(100ms/400ms)                                                                                                                                                                                                   | French Fire<br>Sound AFNOR                  | NFS 32-001             | 7                             |
| 1,0,0,0,0                              | 2  | Alternating  | 800/970              | 1Hz                                                                                                                                                                                                                    |                                             | BS5839 Pt1             | 8                             |
| 0,1,0,0,0                              | 3  | Alternating  | 800/970              | 2Hz                                                                                                                                                                                                                    | Alternating tone<br>telecoms                | BS5839 Pt1<br>FP1063.1 | 8                             |
| 1,1,0,0,0                              | 4  | Alternating  | 2400/2900            | 3Hz                                                                                                                                                                                                                    | Alternating High<br>Frequency               |                        | 10                            |
| 0,0,1,0,0                              | 5  | Alternating  | 2500/3100            | 2Hz                                                                                                                                                                                                                    | Security Alarm                              |                        | 10                            |
| 1,0,1,0,0                              | 6  | Alternating  | 988/645              | 2Hz                                                                                                                                                                                                                    |                                             |                        | 8                             |
| 0,1,1,0,0                              | 7  | Continuous   | 660                  |                                                                                                                                                                                                                        | All Clear                                   |                        | 1                             |
| 1,1,1,0,0                              | 8  | Continuous   | 970                  |                                                                                                                                                                                                                        |                                             | BS5839 Pt1             | 2                             |
| 0,0,0,1,0                              | 9  | Continuous   | 1200                 |                                                                                                                                                                                                                        |                                             |                        | 2                             |
| 1,0,0,1,0                              | 10 | Continuous   | 2850                 |                                                                                                                                                                                                                        | HF Continuous                               |                        | 4                             |
| 0,1,0,1,0                              | 11 | Sweep        | 500 - 1000           | Raising from 150Hz<br>to 1000Hz in 10<br>seconds, then 40<br>seconds at 1000Hz,<br>then falling from<br>1000Hz to 150Hz in<br>10 seconds, then 20<br>seconds at 150 Hz,<br>then repeating. Total<br>period 80 seconds. | "Gasalarm" Tone                             |                        | 22                            |
| 1,1,0,1,0                              | 12 | Intermittent | 420                  | 0.625s on, 0.625s off                                                                                                                                                                                                  | AS2220 alert tone                           | AS2220                 | 13                            |
| 0,0,1,1,0                              | 13 | Sweep        | 500-1200             | 0.25s off, 3.75s off                                                                                                                                                                                                   | AS2220 evacuate<br>tone                     | AS2220                 | 12                            |
| 1,0,1,1,0                              | 14 | Intermittent | 660                  | 3.33Hz 150ms on,<br>150ms off                                                                                                                                                                                          | Swedish Alarm<br>Tone                       |                        | 7                             |
| 0,1,1,1,0                              | 15 | Intermittent | 970                  | 0.8Hz 0.25s on,<br>1s off                                                                                                                                                                                              | Intermittent Tone                           | BS5839 Pt1             | 8                             |
| 1,1,1,1,0                              | 16 | Intermittent | 970                  | 0.5Hz 1s on,<br>1s off                                                                                                                                                                                                 | Backup alarm LF<br>& BS5839 Pt1             | BS5839 Pt1             | 8                             |
| 0,0,0,0,1                              | 17 | Intermittent | 2850                 | 1Hz                                                                                                                                                                                                                    | Backup alarm HF<br>& BS5839 Pt1<br>2nd Tone | BS5839 Pt1             | 10                            |
| 1,0,0,0,1                              | 18 | Intermittent | 970                  | 1Hz 500ms on,<br>500ms off                                                                                                                                                                                             | BS5839 Pt1                                  | BS5839 Pt1             | 8                             |

|           |    |              |                  |                                        |                                      |                    |    |
|-----------|----|--------------|------------------|----------------------------------------|--------------------------------------|--------------------|----|
| 0,1,0,0,1 | 19 | Intermittent | 950              | 0.22Hz (0.5s on, 0.5s off)*3, 1.5s off |                                      | ISO8201            | 12 |
| 1,1,0,0,1 | 20 | Continuous   | 800              | 4Hz 150ms on, 100ms off                |                                      | BS5839 Pt1         | 22 |
| 0,0,1,0,1 | 21 | Sweep        | 400-1200         | (0.5s on, 0.5s off)*3, 1.5s off        | Temporal 3 Evacuation tone           | ISO8201 Temporal 3 | 12 |
| 1,0,1,0,1 | 22 | Sweep        | 1200 - 500       | 0.99Hz 1s on, 0.01s off                | Evacuate, DIN tone & PFEER           | DIN, PFEER         | 20 |
| 0,1,1,0,1 | 23 | Sweep        | 2400 - 2850      | 7Hz                                    | Fast Sweep Vds                       | Vds                | 10 |
| 1,1,1,0,1 | 24 | Sweep        | 500 - 1200       | 0.5sec off 3.5sec on                   | Slow whoop evacuate Netherlands      | NEN 2575           | 8  |
| 0,0,0,1,1 | 25 | Sweep        | 800 - 970        | 50Hz                                   | LF buzz BS5839 Pt1                   | BS5839 Pt1         | 8  |
| 1,0,0,1,1 | 26 | Sweep        | 800 - 970        | 7Hz                                    | Fast sweep LF BS5839 Pt1             | BS5839 Pt1         | 8  |
| 0,1,0,1,1 | 27 | Sweep        | 800 - 970        | 1Hz                                    | Medium sweep LF buzz BS5839 Pt1, Vds | BS5839 Pt1 Vds     | 8  |
| 1,1,0,1,1 | 28 | Sweep        | 2400 - 2850      | 50Hz                                   | High frequency buzz                  |                    | 10 |
| 0,0,1,1,1 | 29 | Sweep        | 500 - 1000       | 7Hz                                    | Fast whoop                           |                    | 8  |
| 1,0,1,1,1 | 30 | Sweep        | 500 - 1200 - 500 | 0.166 Hz rise 1 s, stable 4s, fall 1s  | Siren style tone                     |                    | 8  |
| 0,1,1,1,1 | 31 | Sweep        | 800 - 1000       | 2Hz                                    |                                      |                    | 8  |
| 1,1,1,1,1 | 32 | Sweep        | 2400 - 2850      | 1Hz                                    |                                      |                    | 10 |

Table 3

| DIP setting<br>0=Off/1=On<br>SW 1,2,3,4,5 | No | Typical current consumption |                 |              |                             |                     |                  |
|-------------------------------------------|----|-----------------------------|-----------------|--------------|-----------------------------|---------------------|------------------|
|                                           |    | Wall mount devises          |                 |              | Detector base mount devises |                     |                  |
|                                           |    | (WSO)<br>High               | (WSO)<br>Medium | (WSO)<br>Low | (BSO/BSS)<br>High           | (BSO/BSS)<br>Medium | (BSO/BSS)<br>Low |
| 0,0,0,0,0                                 | 1  | 6.0/9.3                     | 2.5/5.8         | 1.2/4.5      | 6.4/9.7                     | 2.2/5.5             | 1.1/4.4          |
| 1,0,0,0,0                                 | 2  | 5.4/8.7                     | 2.9/6.2         | 1.4/4.7      | 4.5/7.8                     | 2.0/5.3             | 1.3/4.6          |
| 0,1,0,0,0                                 | 3  | 5.3/8.6                     | 2.8/6.1         | 1.4/4.7      | 4.4/7.7                     | 2.0/5.3             | 1.3/4.6          |
| 1,1,0,0,0                                 | 4  | 5.3/8.6                     | 2.6/5.9         | 1.7/5.0      | 4.6/7.9                     | 2.1/5.4             | 1.5/4.8          |
| 0,0,1,0,0                                 | 5  | 6.7/10.0                    | 2.6/5.9         | 1.8/5.1      | 4.9/8.2                     | 2.2/5.5             | 1.6/4.9          |
| 1,0,1,0,0                                 | 6  | 5.9/9.2                     | 2.5/5.8         | 1.4/4.7      | 5.0/8.3                     | 2.2/5.5             | 1.3/4.6          |
| 0,1,1,0,0                                 | 7  | 5.0/8.3                     | 2.5/5.8         | 1.2/4.7      | 4.8/8.1                     | 2.3/5.6             | 1.1/4.4          |
| 1,1,1,0,0                                 | 8  | 4.8/8.1                     | 2.3/5.6         | 1.4/4.7      | 4.5/7.8                     | 1.9/5.2             | 1.3/4.6          |
| 0,0,0,1,0                                 | 9  | 4.8/8.1                     | 2.2/5.5         | 1.5/4.8      | 4.5/7.8                     | 2.0/5.3             | 1.2/4.5          |
| 1,0,0,1,0                                 | 10 | 5.2/8.5                     | 2.7/6.0         | 1.5/4.8      | 4.5/7.8                     | 2.1/5.4             | 1.4/4.7          |
| 0,1,0,1,0                                 | 11 | 5.5/8.8                     | 2.5/5.8         | 1.4/4.7      | 5.0/8.3                     | 2.1/5.4             | 1.4/4.7          |
| 1,1,0,1,0                                 | 12 | 6.2/9.5                     | 2.6/5.9         | 1.1/4.4      | 5.6/8.9                     | 2.1/5.4             | 1.0/4.3          |
| 0,0,1,1,0                                 | 13 | 10.4/13.7                   | 3.6/6.9         | 1.7/5.0      | 9.1/12.4                    | 3.0/6.3             | 1.3/4.6          |
| 1,0,1,1,0                                 | 14 | 5.0/8.3                     | 2.4/5.7         | 1.2/4.5      | 4.7/8.0                     | 2.2/5.5             | 1.1/4.4          |

|           |    |           |         |         |           |         |         |
|-----------|----|-----------|---------|---------|-----------|---------|---------|
| 0,1,1,1,0 | 15 | 4.8/8.1   | 2.3/5.6 | 1.4/4.7 | 4.4/7.7   | 1.9/5.2 | 1.3/4.6 |
| 1,1,1,1,0 | 16 | 4.8/8.1   | 2.3/5.6 | 1.4/4.7 | 4.8/8.1   | 1.9/5.2 | 1.3/4.6 |
| 0,0,0,0,1 | 17 | 5.2/8.5   | 2.7/6.0 | 1.5/4.8 | 4.5/7.8   | 2.1/5.4 | 1.4/4.7 |
| 1,0,0,0,1 | 18 | 4.8/8.1   | 2.3/5.6 | 1.4/4.7 | 4.5/7.8   | 1.9/5.2 | 1.3/4.6 |
| 0,1,0,0,1 | 19 | 4.3/7.6   | 2.1/5.4 | 1.3/4.6 | 4.4/7.7   | 1.9/5.2 | 1.3/4.6 |
| 1,1,0,0,1 | 20 | 5.2/8.5   | 2.9/6.2 | 1.3/4.6 | 3.9/7.2   | 2.0/5.3 | 1.3/4.6 |
| 0,0,1,0,1 | 21 | 11.1/14.4 | 3.1/6.4 | 1.6/4.9 | 10.5/13.8 | 2.5/5.8 | 1.2/4.5 |
| 1,0,1,0,1 | 22 | 10.3/13.6 | 3.3/6.6 | 1.7/5.0 | 9.2/12.5  | 2.8/6.1 | 1.3/4.6 |
| 0,1,1,0,1 | 23 | 5.0/8.3   | 2.6/5.9 | 1.9/5.2 | 4.8/8.1   | 2.4/5.7 | 1.7/5.0 |
| 1,1,1,0,1 | 24 | 10.3/13.6 | 3.5/6.8 | 1.7/5.0 | 9.0/12.3  | 3.0/6.3 | 1.3/4.6 |
| 0,0,0,1,1 | 25 | 4.0/7.3   | 2.3/5.6 | 1.3/4.6 | 3.7/7.0   | 1.9/5.2 | 1.3/4.6 |
| 1,0,0,1,1 | 26 | 4.5/7.8   | 2.5/5.8 | 1.4/4.7 | 4.3/7.6   | 2.0/5.3 | 1.3/4.6 |
| 0,1,0,1,1 | 27 | 5.1/8.4   | 2.8/6.1 | 1.4/4.7 | 4.6/7.9   | 2.0/5.3 | 1.4/4.7 |
| 1,1,0,1,1 | 28 | 4.9/8.2   | 2.6/5.9 | 1.8/5.1 | 4.3/7.6   | 2.4/5.7 | 1.6/4.9 |
| 0,0,1,1,1 | 29 | 5.4/8.7   | 2.5/5.8 | 1.3/4.6 | 4.8/8.1   | 1.9/5.2 | 1.3/4.6 |
| 1,0,1,1,1 | 30 | 10.1/13.4 | 3.4/6.7 | 1.7/5.0 | 9.3/12.6  | 2.8/6.1 | 1.3/4.6 |
| 0,1,1,1,1 | 31 | 5.3/8.6   | 2.7/6.0 | 1.4/4.7 | 4.8/8.1   | 2.1/5.4 | 1.4/4.7 |
| 1,1,1,1,1 | 32 | 5.2/8.5   | 2.6/5.9 | 1.9/5.2 | 5.0/8.3   | 2.4/5.7 | 1.6/4.9 |

**Note!** For Isolated variants add 0.19mA to high, medium, low values above.

## 1.3 Product codes

| Bases      | Isolation     | Product codes |
|------------|---------------|---------------|
| BSS-PR-I33 | Isolation     | FFS06711723   |
| BSS-PR-N33 | Non isolation | FFS06711724   |