

BSR-5130/WP WATERPROOF ADDRESSABLE SOUNDER WITH INTEGRATED ISOLATOR



TECHNICAL CHARACTERISTICS

| | |
|---|---------------------------------------|
| COMMUNICATION PROTOCOL | Olympia A Protocol |
| MAIN VOLTAGE | 12-30V DC |
| STANDBY CONSUMPTION | 90µA |
| ALARM CONSUMPTION | 11.2 to 49.2 mA |
| MAXIMUM SOUND LEVEL IN 1 METER | 101dB |
| ENVIRONMENTAL TYPE | Type B |
| MOUNTING | Wall mounted |
| MAXIMUM LOOP CURRENT (Ic max, -L in/out) | 1A |
| MAXIMUM SWITCH CURRENT (Is max, -L in/out) | 5A |
| MAXIMUM SERIES RESISTANCE (Zc max, -L in-out) | 300mΩ |
| MAXIMUM LEAKAGE CURRENT IN ISOLATION MODE (IL max, -L in/out) | 25mA pulses (6ms duration every 2sec) |
| ISOLATION VOLTAGE (Vso min-max) | 8.8 - 11 |
| RECONNECT VOLTAGE (Vsc min-max) | 10.2 - 13 |
| MOUNTING HEIGHT (x) | 2.3 meters max |
| COVER AREA CODE | 0-2,3-2,4-4,8 |
| COVER AREA | 26.5m² maximum |
| DEGREES OF COVER PROTECTION | IP65 |
| PRODUCED IN ACCORDANCE WITH | EN 54-3:2001, EN-54-17:2005 |
| OPERATING TEMPERATURE RANGE | -25 to 70 °C |
| RELATIVE HUMIDITY | Up to 95% |
| CONSTRUCTION MATERIALS | ABS/PC, PC |
| EXTERNAL DIMENSIONS | 127x137x82 mm |
| TYPICAL WEIGHT | 313 gr. |
| GUARANTEE | 2 years |

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GENERAL

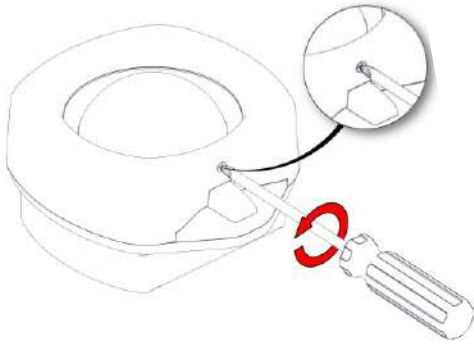
This device is used as an audible warning sounder in case of fire event. The sound level covers an area of several square meters. It is compatible with fire panels that support Olympia A Protocol.

CONNECTION AND MOUNTING

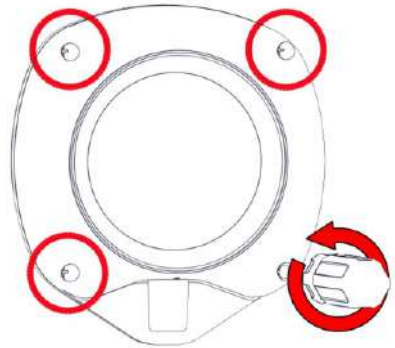
1. Unscrew the screw and remove the plastic cover using a flat screwdriver to the point under the screw (Picture 1 page 2).
2. Unscrew the four screws and detach the plastic from the base (Picture 2).
3. Drill the holes needed to pass the connection cables. Place the cable glands and open a hole to the center with a small screwdriver. Pass the connection cables through the glands of the device (Picture 3).
4. Use the supplied mounting accessories to place the base of the siren in height up to 2.4 meters from the ground (Picture 3 page 2). Install the plastic plugs and fasten the screws (with the supplied rubber sealing ring and washer) in the mounting holes. **CAUTION!!** Make sure that the base of the siren is installed in the correct orientation.

5. To adjust the type of the sound indication use the DIP switches 1 to 5, according to Table 1 (page 4).
 6. To adjust the sound level use the DIP switches 6 to 7, according to Table 2 (page 6).
 7. Refit the plastic and fasten the 4 screws you removed in step 2.
 8. Refit the plastic cover and fasten the screw.
 9. Test the operation of the device through the panel after the installation.
- The BSR-5130/WP integrates an isolator short circuit which activates automatically by disconnecting the defective node from the loop and allowing its detection through the panel.

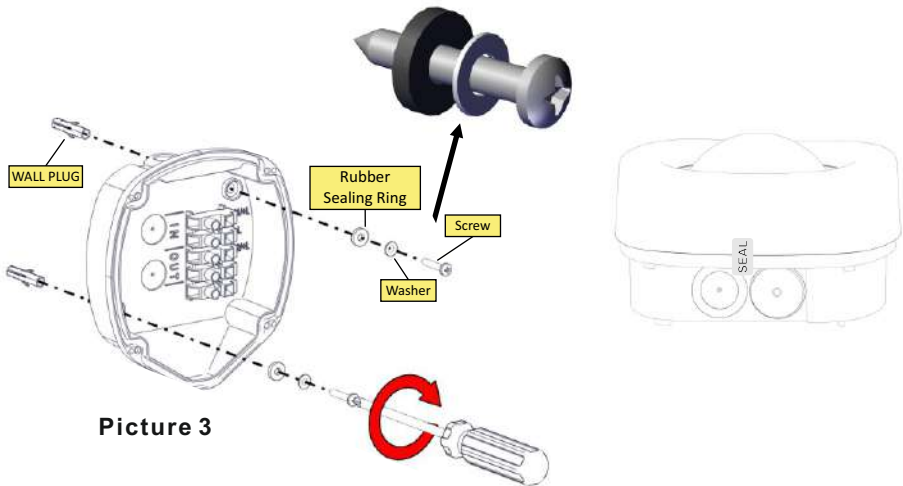
INSTALLATION



Picture 1



Picture 2



Picture 3

UID:

In every device there is a double sticker with the UID (Unique Identifier) number. This number is unique for each device.

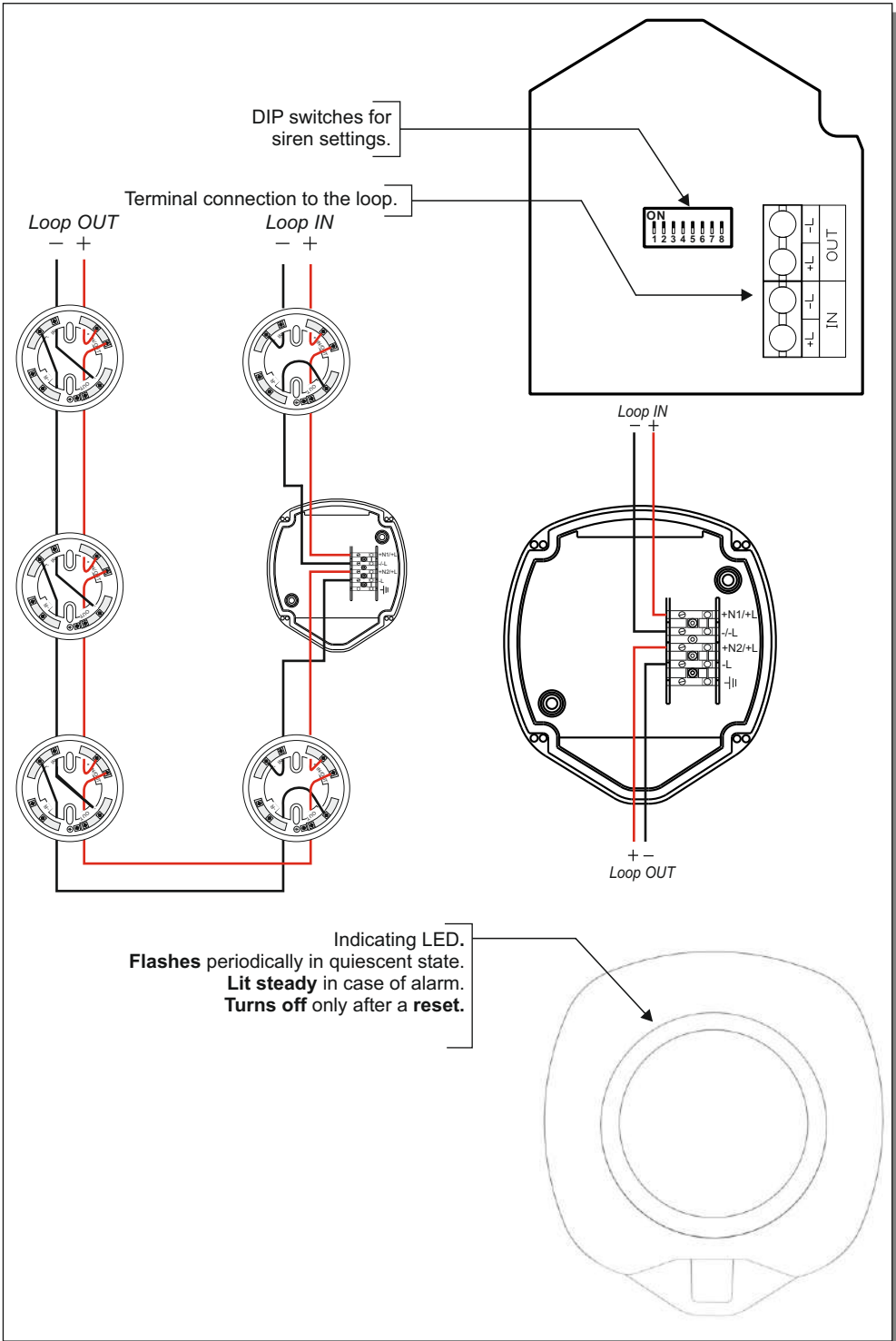


Table 1.1

| No | Switch setting [1-2-3-4-5] | Frequency | Pattern | Rate | Main application |
|----|-------------------------------|-------------|-------------------------------------|---|---------------------------|
| 1 | 0-0-0-0-0 | 970 | Continuous | Steady | PFEER toxic gas |
| 2 | 1-0-0-0-0 | 970 | Intermitted | 0.5Hz (1s On/1s Off) | PFEER alert |
| 3 | 0-1-0-0-0 | 1200 - 500 | Sweep | 1s sweep | German fire (DIN 33 404) |
| 4 | 1-1-0-0-0 | 500 - 1200 | Slow whoop | 3s sweep, 0.5 sec silence | Dutch fire (NEN 2575) (*) |
| 5 | 0-0-1-0-0 | 800 & 970 | Alternating | 1Hz (500ms-500ms) | BS Fire |
| 6 | 1-0-1-0-0 | 2850 | Intermitted | 1Hz (0.5s On/0.5s Off) | General purpose |
| 7 | 0-1-1-0-0 | 970 | Intermitted | 3 x 500ms pulsed, 1,5 sec silence | ISO 8201 |
| 8 | 1-1-1-0-0 | 2850 | Intermitted | 3 x 500ms pulsed, 1,5 sec silence | |
| 9 | 0-0-0-1-0 | 800 - 970 | Sweep | 7Hz | BS Fire |
| 10 | 1-0-0-1-0 | 800 - 970 | Sweep | 1Hz | BS Fire (*) |
| 11 | 0-1-0-1-0 | 2850 | Continuous | Steady | General Purpose |
| 12 | 1-1-0-1-0 | 2400 - 2850 | Sweep | 7Hz | General Purpose |
| 13 | 0-0-1-1-0 | 2400 - 2850 | Sweep | 1Hz | General Purpose |
| 14 | 1-0-1-1-0 | 2400 - 2850 | Alternating | 2Hz (250ms-250ms) | General Purpose |
| 15 | 0-1-1-1-0 | 970 | Intermitted | 0.8Hz (250ms On/1s Off) | General Purpose |
| 16 | 1-1-1-1-0 | 554 & 440 | Alternating | 100ms-400ms | French fire (NFS 32-001) |
| 17 | 0-0-0-0-1 | 660 | Intermitted | 3.3Hz (150ms On/150ms Off) | Swedish (Air Raid) |
| 18 | 1-0-0-0-1 | 660 | Intermitted | 0.28Hz (1.8s On/1.8s Off) | Swedish (Local warning) |
| 19 | 0-1-0-0-1 | 660 | Intermitted | 0,05Hz (6.5s On/13s Off) | Swedish (Pre-mess) |
| 20 | 1-1-0-0-1 | 554 & 440 | Alternating | 0,5Hz (1s On/1s Off) | Swedish (Turn out) |
| 21 | 0-0-1-0-1 | 660 | Intermitted | 1Hz (500ms-500ms) | Swedish general purpose |
| 22 | 1-0-1-0-1 | 2850 | Intermitted | 4Hz (150ms On/100ms Off) | Pelican crossing |
| 23 | 0-1-1-0-1 | 800 - 970 | Sweep | 50Hz | BS Fire |
| 24 | 1-1-1-0-1 | 2400 - 2850 | Sweep | 50Hz | General Purpose |
| 25 | 0-0-0-1-1 | 970 | Intermitted | 3 x 500ms pulsed seep, 1.5s silence, then repeat | ISO 8201 |
| 26 | 1-0-0-1-1 | 970 | Intermitted | 3 x 500ms pulsed 2 tones, 1.5s silence, then repeat | ISO 8201 |
| 27 | 0-1-0-1-1 | 800 & 970 | Alternating | 2Hz (250ms-250ms) | BS Fire |
| 28 | 1-1-0-1-1 | 990 & 650 | Alternating | 2Hz (250ms-250ms) | BS Fire |
| 29 | 0-0-1-1-1 | 510 & 610 | Alternating | 2Hz (250ms-250ms) | BS Fire |
| 30 | 1-0-1-1-1 | 300 - 1200 | Sweep | 1Hz | General Purpose |
| 31 | 0-1-1-1-1 | 510 & 610 | Alternating | 1Hz (500ms-500ms) | BS Fire |
| 32 | 1-1-1-1-1 | 150 - 1000 | Sweep up, continuous, slow whoop | 10s sweep 150-1000, 40s continuous, 10s sweep 1000-150 | |

(*) EN54-3 certified. No 4 is the main tone.

Table 1.2

| No | Switch setting [1-2-3-4-5] | Sound level 1 | | Sound level 2 | | Sound level 3 | | Sound level 4 | |
|----|-------------------------------|---------------|------------------------|---------------|------------------------|---------------|------------------------|---------------|------------------------|
| | | dB (A) | Alarm Consumption (mA) | dB (A) | Alarm Consumption (mA) | dB (A) | Alarm Consumption (mA) | dB (A) | Alarm Consumption (mA) |
| 1 | 0-0-0-0-0 | 84 | 11.2 | 91 | 11.2 | 97 | 24.3 | 101 | 27.4 |
| 2 | 1-0-0-0-0 | 76 | 11.2 | 82 | 11.2 | 88 | 24.3 | 90 | 27.4 |
| 3 | 0-1-0-0-0 | 84 | 11.2 | 90 | 11.2 | 95 | 24.3 | 99 | 49.2 |
| 4 | 1-1-0-0-0 | 84 | 11.2 | 89 | 11.2 | 94 | 24.3 | 100(*) | 49.2 |
| 5 | 0-0-1-0-0 | 85 | 11.2 | 91 | 11.2 | 96 | 24.3 | 99 | 35.7 |
| 6 | 1-0-1-0-0 | 78 | 11.2 | 83 | 11.2 | 86 | 24.3 | 88 | 35.7 |
| 7 | 0-1-1-0-0 | 73 | 11.2 | 77 | 11.2 | 83 | 24.3 | 87 | 27.4 |
| 8 | 1-1-1-0-0 | 75 | 11.2 | 79 | 11.2 | 85 | 24.3 | 87 | 35.7 |
| 9 | 0-0-0-1-0 | 86 | 11.2 | 91 | 11.2 | 95 | 24.3 | 98 | 35.7 |
| 10 | 1-0-0-1-0 | 86 | 11.2 | 91 | 11.2 | 96 | 24.3 | 100(*) | 35.7 |
| 11 | 0-1-0-1-0 | 89 | 11.2 | 94 | 11.2 | 99 | 24.3 | 101 | 35.7 |
| 12 | 1-1-0-1-0 | 86 | 11.2 | 92 | 11.2 | 92 | 24.3 | 98 | 35.7 |
| 13 | 0-0-1-1-0 | 86 | 11.2 | 92 | 11.2 | 94 | 24.3 | 98 | 35.7 |
| 14 | 1-0-1-1-0 | 85 | 11.2 | 90 | 11.2 | 95 | 24.3 | 98 | 35.7 |
| 15 | 0-1-1-1-0 | 62 | 11.2 | 68 | 11.2 | 73 | 24.3 | 74 | 27.4 |
| 16 | 1-1-1-1-0 | 83 | 11.2 | 88 | 11.2 | 94 | 24.3 | 99 | 49.2 |
| 17 | 0-0-0-0-1 | 73 | 11.2 | 77 | 11.2 | 82 | 24.3 | 85 | 38.5 |
| 18 | 1-0-0-0-1 | 81 | 11.2 | 85 | 11.2 | 90 | 24.3 | 94 | 38.5 |
| 19 | 0-1-0-0-1 | 85 | 11.2 | 89 | 11.2 | 95 | 24.3 | 98 | 38.5 |
| 20 | 1-1-0-0-1 | 83 | 11.2 | 88 | 11.2 | 95 | 24.3 | 99 | 49.2 |
| 21 | 0-0-1-0-1 | 74 | 11.2 | 78 | 11.2 | 83 | 24.3 | 86 | 38.5 |
| 22 | 1-0-1-0-1 | 79 | 11.2 | 84 | 11.2 | 88 | 24.3 | 91 | 35.7 |
| 23 | 0-1-1-0-1 | 85 | 11.2 | 91 | 11.2 | 95 | 24.3 | 98 | 35.7 |
| 24 | 1-1-1-0-1 | 86 | 11.2 | 92 | 11.2 | 95 | 24.3 | 98 | 35.7 |
| 25 | 0-0-0-1-1 | 80 | 11.2 | 85 | 11.2 | 90 | 24.3 | 92 | 35.7 |
| 26 | 1-0-0-1-1 | 73 | 11.2 | 78 | 11.2 | 83 | 24.3 | 85 | 35.7 |
| 27 | 0-1-0-1-1 | 84 | 11.2 | 90 | 11.2 | 95 | 24.3 | 98 | 35.7 |
| 28 | 1-1-0-1-1 | 85 | 11.2 | 90 | 11.2 | 94 | 24.3 | 99 | 49.2 |
| 29 | 0-0-1-1-1 | 83 | 11.2 | 91 | 11.2 | 96 | 24.3 | 99 | 49.2 |
| 30 | 1-0-1-1-1 | 83 | 11.2 | 89 | 11.2 | 94 | 24.3 | 98 | 35.7 |
| 31 | 0-1-1-1-1 | 83 | 11.2 | 91 | 11.2 | 96 | 24.3 | 99 | 49.2 |
| 32 | 1-1-1-1-1 | 83 | 11.2 | 91 | 11.2 | 98 | 24.3 | 99 | 38.5 |

(*) EN54-3 certified. No 4 is the main tone.

Table 2

| Sound level No | Switch setting [6-7] |
|----------------|----------------------|
| 1 | 0-0 |
| 2 | 1-0 |
| 3 | 0-1 |
| 4 | 1-1 |

Table 3

| Angle of measurement | dB(A) at 1m at Sound level 4 |
|----------------------|------------------------------|
| 15 | 86 |
| 45 | 92 |
| 75 | 97 |
| 105 | 97 |
| 135 | 94 |
| 165 | 88 |

WARRANTY

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid.

Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

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