

# BSR-5132/WP

## Waterproof addressable sounder with beacon and integrated isolator



### TECHNICAL CHARACTERISTICS

COMMUNICATION PROTOCOL	Olympia A Protocol
MAIN VOLTAGE	12-30V DC
STANDBY CONSUMPTION	90µA
ALARM CONSUMPTION	11.2 to 52.4mA
MAXIMUM SOUND LEVEL IN 1 METER	101dB
BEACON	1 power LED
ENVIRONMENTAL TYPE	Type B
MOUNTING	Wall mounted
MAXIMUM LOOP CURRENT (I <sub>c</sub> max, -L in/out)	1A
MAXIMUM SWITCH CURRENT (I <sub>s</sub> max, -L in/out)	5A
MAXIMUM SERIES RESISTANCE (Z <sub>c</sub> max, -L in-out)	300mΩ
MAXIMUM LEAKAGE CURRENT IN ISOLATION MODE (I <sub>L</sub> max, -L in/out)	25mA pulses (6ms duration every 2sec)
ISOLATION VOLTAGE (V <sub>so</sub> min-max)	8.8 - 11
RECONNECT VOLTAGE (V <sub>sc</sub> min-max)	10.2 - 13
MOUNTING HEIGHT (x)	2.3 meters max
COVER AREA CODE	O-2,3-2,4-4,8
COVER AREA	26.5m <sup>3</sup> maximum
FLASHING RATE	Adjustable to 1 Hz or 0.5 Hz
FLASHING COLOUR	White
DEGREES OF COVER PROTECTION	IP65
PRODUCED IN ACCORDANCE WITH	EN 54-3, EN-54-17, EN 54-23
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 indication of a fire panel that sounds a warning signal from the siren and provides visual indication using the beacon. The sound level and the luminous signal it produces 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
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 5).
7. To adjust the frequency of the flashing LED use DIP switch 8 according to Table 3 (page 5). The compatibility with EN 54-23 is achieved only when the 0.5 Hz frequency is selected.
8. Refit the plastic and fasten the 4 screws you removed in step 2.
9. Refit the plastic cover and fasten the screw.
10. Test the operation of the device through the panel after the installation.

The BSR-5132/WP integrates an isolator short circuit which activates automatically by disconnecting the defective node from the loop and allowing it's detection though the panel.

Table 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 4).



Sound level 1			Sound level 2			Sound level 3			Sound level 4			
dB (A)	mA (Flash 1Hz)	mA (Flash 0.5Hz)	dB (A)	mA (Flash 1Hz)	mA (Flash 0.5Hz)	dB (A)	mA (Flash 1Hz)	mA (Flash 0.5Hz)	dB (A)	mA (Flash 1Hz)	mA (Flash 0.5Hz)	
84	11.2	24.3	91	11.2	24.3	97	24.3	35.7	101	27.4	38.5	
76	11.2	24.3	82	11.2	24.3	88	24.3	35.7	90	27.4	38.5	
84	11.2	24.3	90	11.2	24.3	95	24.3	35.7	99	49.2	52.4	
84	11.2	24.3	89	11.2	24.3	94	24.3	35.7	100(*)	49.2	52.4	
85	11.2	24.3	91	11.2	24.3	96	24.3	35.7	99	35.7	49.2	
78	11.2	24.3	83	11.2	24.3	86	24.3	27.4	88	35.7	49.2	
73	11.2	24.3	77	11.2	24.3	83	24.3	35.7	87	27.4	38.5	
75	11.2	24.3	79	11.2	24.3	85	24.3	27.4	87	35.7	49.2	
86	11.2	24.3	91	11.2	24.3	95	24.3	35.7	98	35.7	49.2	
86	11.2	24.3	91	11.2	24.3	96	24.3	35.7	100(*)	35.7	49.2	
89	11.2	24.3	94	11.2	24.3	99	24.3	27.4	101	35.7	49.2	
86	11.2	24.3	92	11.2	24.3	92	24.3	27.4	98	35.7	49.2	
86	11.2	24.3	92	11.2	24.3	94	24.3	27.4	98	35.7	49.2	
85	11.2	24.3	90	11.2	24.3	95	24.3	27.4	98	35.7	49.2	
62	11.2	24.3	68	11.2	24.3	73	24.3	35.7	74	27.4	38.5	
83	11.2	24.3	88	11.2	24.3	94	24.3	35.7	99	49.2	52.4	
73	11.2	24.3	77	11.2	24.3	82	24.3	35.7	85	38.5	52.4	
81	11.2	24.3	85	11.2	24.3	90	24.3	35.7	94	38.5	52.4	
85	11.2	24.3	89	11.2	24.3	95	24.3	35.7	98	38.5	52.4	
83	11.2	24.3	88	11.2	24.3	95	24.3	35.7	99	49.2	52.4	
74	11.2	24.3	78	11.2	24.3	83	24.3	35.7	86	38.5	52.4	
79	11.2	24.3	84	11.2	24.3	88	24.3	27.4	91	35.7	49.2	
85	11.2	24.3	91	11.2	24.3	95	24.3	35.7	98	35.7	49.2	
86	11.2	24.3	92	11.2	24.3	95	24.3	27.4	98	35.7	49.2	
80	11.2	24.3	85	11.2	24.3	90	24.3	35.7	92	35.7	49.2	
73	11.2	24.3	78	11.2	24.3	83	24.3	35.7	85	35.7	49.2	
84	11.2	24.3	90	11.2	24.3	95	24.3	35.7	98	35.7	49.2	
85	11.2	24.3	90	11.2	24.3	94	24.3	35.7	99	49.2	52.4	
83	11.2	24.3	91	11.2	24.3	96	24.3	35.7	99	49.2	52.4	
83	11.2	24.3	89	11.2	24.3	94	24.3	35.7	98	35.7	49.2	
83	11.2	24.3	91	11.2	24.3	96	24.3	35.7	99	49.2	52.4	
83	11.2	24.3	91	11.2	24.3	98	24.3	35.7	99	38.5	52.4	



**Table 2**

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

**Table 3**

Light temporal pattern and frequency	Switch setting [8]
20 ms pulse at 1 Hz	0
150 ms pulse at 0.5 Hz (EN 54-23 compliant)	1

**Table 4**

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 deflection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

