

BS-532/WP Waterproof sounder with beacon



TECHNICAL CHARACTERISTICS

MAIN VOLTAGE	18-30V DC
ALARM CONSUMPTION	12 to 49mA
MAXIMUM SOUND LEVEL IN 1 METER	103dB
BEACON	1 power LED
ENVIROMENTAL TYPE	Type B
MOUNTING	Wall mounted
MOUNTING HEIGHT (x)	2.4 meters max
COVER AREA CODE	O-2, 4-2, 4-4, 8
COVER AREA	27.7m ² 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 54-23
OPERATING TEMPERATURE RANGE	-25 to 70 °C
RELATIVE HUMIDITY	Up to 95%
CONSTRUCTION MATERIALS	ABS/PC, PC
EXTERNAL DIMENSIONS	127x137x82 mm
TYPICAL WEIGHT	306 gr.
GUARANTEE	2 years

Thank you for your trust in our products Olympia Electronics - European manufacturer

GENERAL

This device is used as an indication of a fire panel that provides a warning audio signal from the siren and visual indication using the beacon. The loudness and the luminous signal it produces covers an area of several square meters. It is compatible with any conventional panel.

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 materials to place the base of the siren in height up to 2.4 meters from the ground (Figure 1 page 2). Install the plastic plugs and fasten the screws 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 DIP switches 1 to 5, according to Table 1 (page 4) and Table 4 (page 5). Depending on the input from which the device is powered.

6. To adjust the sound level use DIP switches 6 to 7, according to Table 2 (page 5).

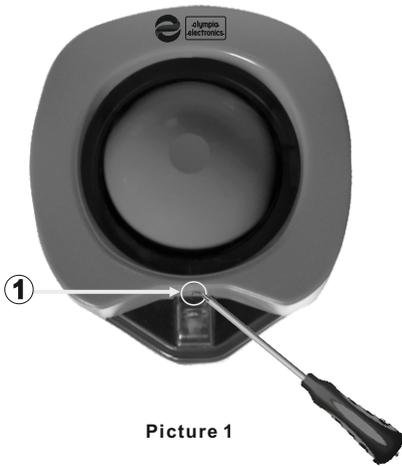
7. To adjust the frequency of the flashing LED use DIP switch 8 according to Table 3 (page 5).

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.

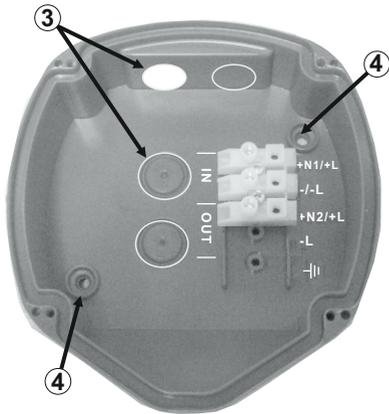
Note: The siren can be supplied from the input N1 or N2. In case it is supplied from both inputs then N1 has priority. Depending on the connection you will choose and the setting of DIP switches 1 to 5 the corresponding pattern will sound. By connecting the siren to input N1 and configuring DIP switches 1 to 5 the pattern that will sound is shown in Table 1. By connecting the siren to input N2 and configuring DIP switches 1 to 5 the pattern that will sound is shown in Table 4. The difference in the patterns between N1 and N2 allows the device to be used both as a pre-alarm and alarm indication.



Picture 1



Picture 2



Picture 3



NOTE!!! After finishing the installation place the sticker **SEAL** as shown in the picture above.

O-x-y-z

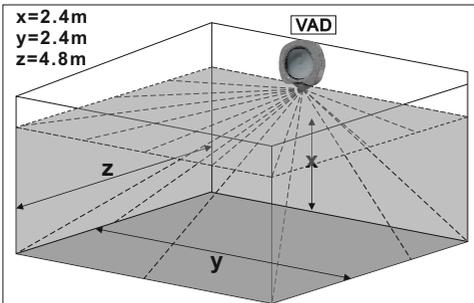
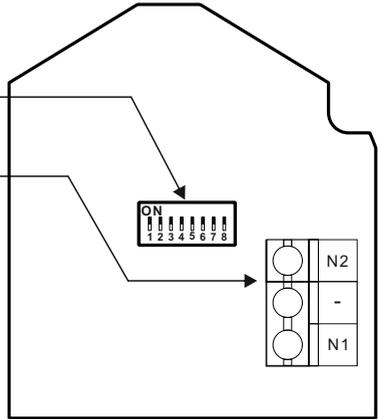


Figure 1. Wall Mounting

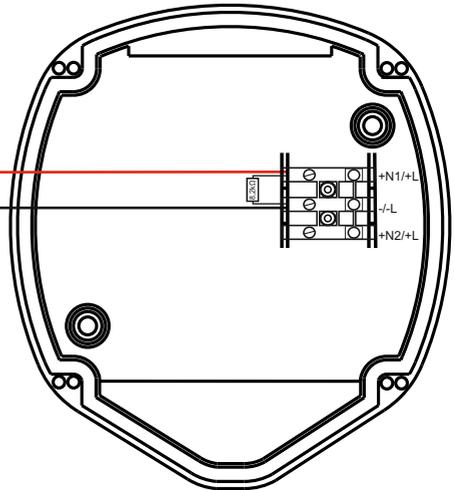
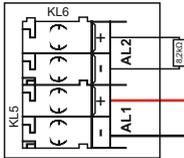
UID:
In every device there is a double sticker with the UID (Unique Identifier) number. This number is unique for each device.

DIP switches for siren and beacon settings.

Supply terminals.



Connect supply either to N1 or N2 and the 0V. Depending on the connection the siren will sound with the matching pattern.



Connection with BS-1638 fire detection panel.

Visual indication of the siren with power LED.



Table 1

N1 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 5).

	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)
	92	18	10	97	20	12	103	30	23	104	35	28
	92	18	9	97	19	10	103	23	16	104	26	17
	92	18	10	97	20	11	102	26	19	106	47	39
	92	18	10	98	19	12	103	25	17	93 (*)	43	34
	93	18	10	97	19	12	103	28	21	105	39	31
	93	18	10	97	18	11	106	20	13	104	26	19
	70	17	10	97	18	10	103	21	13	104	24	14
	93	18	10	97	19	11	100	20	12	104	24	15
	92	17	10	97	19	12	102	28	20	103	40	32
	92	18	11	96	19	11	102	29	22	92 (*)	40	32
	94	19	10	99	19	12	102	23	15	105	36	27
	89	19	12	94	21	13	97	25	17	100	36	27
	91	19	12	95	21	13	99	24	17	102	34	29
	93	18	11	98	20	12	101	22	15	104	33	25
	72	18	10	89	18	10	97	19	12	99	22	13
	89	18	11	94	19	12	102	26	18	105	49	42
	80	17	10	83	18	11	90	23	14	92	31	24
	91	18	10	93	18	11	101	23	15	103	35	24
	91	18	9	93	18	10	104	20	14	103	24	27
	89	18	10	94	19	11	103	26	19	106	50	44
	90	17	10	93	18	11	101	22	15	103	32	25
	85	19	11	89	19	12	92	21	12	94	27	22
	92	18	11	97	19	12	102	28	22	104	41	33
	90	19	12	95	21	14	98	24	17	100	35	27
	92	17	10	97	19	10	102	24	15	103	29	24
	91	17	9	95	18	10	103	21	12	105	25	17
	92	18	10	97	20	11	103	27	21	105	39	31
	92	19	11	97	20	12	102	24	27	106	40	34
	91	18	10	98	21	13	104	29	20	107	52	44
	91	17	11	97	19	13	102	25	18	105	50	41
	91	17	10	98	20	13	104	29	20	107	51	44
	92	18	10	97	22	14	106	32	24	107	45	33

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]
170 ms pulse at 1 Hz	0
170 ms pulse at 0.5 Hz	1

Table 4

N2 A/A	Switch setting [1-2-3-4-5]	Pattern match with Table 1 No	N2 A/A	Switch setting [1-2-3-4-5]	Pattern match with Table 1 No	N2 A/A	Switch setting [1-2-3-4-5]	Pattern match with Table 1 No
1	0-0-0-0-0	1	12	1-1-0-1-0	11	23	0-1-1-0-1	1
2	1-0-0-0-0	1	13	0-0-1-1-0	11	24	1-1-1-0-1	11
3	0-1-0-0-0	1	14	1-0-1-1-0	11	25	0-0-0-1-1	25
4	1-1-0-0-0	1	15	0-1-1-1-0	1	26	1-0-0-1-1	26
5	0-0-1-0-0	1	16	1-1-1-1-0	1	27	0-1-0-1-1	1
6	1-0-1-0-0	11	17	0-0-0-0-1	17	28	1-1-0-1-1	2
7	0-1-1-0-0	7	18	1-0-0-0-1	18	29	0-0-1-1-1	1
8	1-1-1-0-0	8	19	0-1-0-0-1	19	30	1-0-1-1-1	1
9	0-0-0-1-0	1	20	1-1-0-0-1	20	31	0-1-1-1-1	1
10	1-0-0-1-0	1	21	0-0-1-0-1	21	32	1-1-1-1-1	11
11	0-1-0-1-0	1	22	1-0-1-0-1	1			

Table 5

Angle of measurement	dB(A) at 1m at Sound level 4
15	93
45	99
75	103
105	103
135	101
165	94

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.

HEAD OFFICE

72nd km. O.N.R. Thessaloniki-Katerini
P.C. 60300 P.O. Box 06 Eginio Pierias Greece

www.olympia-electronics.gr
info@olympia-electronics.gr