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# BS-521/1/WP WATERPROOF AUTONOMOUS SIREN WITH BEACON



## TECHNICAL CHARACTERISTICS

OPERATION VOLTAGE	220 - 240V AC/50-60Hz
MAXIMUM AC POWER CONSUMPTION	3VA
MAXIMUM AC CURRENT CONSUMPTION	30 mAAC
STANDBY AC CURRENT CONSUMPTION	4mAAC
BATTERY TYPE	3.6V 1.5Ah NiMH
MAXIMUM BATTERY CURRENT CONSUMPTION	360mA DC
RECHARGE TIME	24 Hours
MINIMUM DURATION	90 minutes
MAXIMUM SOUND OUTPUT in1m	94dB (sound effect 1)
BEACON	1 power LED
TYPE OF APPLICATION ENVIRONMENT	Type B
MOUNTING	Wall
COVERAGE (y)	6 m around the siren at an angle of 180°
MOUNTING HEIGHT (x)	2.4m max
COVERAGE VOLUME CODE	W-2.4-6
COVERAGE VOLUME	86.4m³ (max)
FLASH RATE	1 Hz (Switchable to 0.5 Hz)
FLASH COLOUR	Red
DEGREES OF COVER PROTECTION	IP65
PRODUCED IN ACCORDANCE WITH	EN 54-3, EN 54-23
OPERATION TEMPERATURE RANGE	5 to 40 °C
RELATIVE HUMIDITY	Up to 95%
CONSTRUCTION MATERIAL	ABS/PC, PC
EXTERNAL DIMENSIONS	141 x 141 x 100 mm
TYPICAL WEIGHT	390gr.
GUARANTEE	2 years

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## GENERAL

This device is Visual Alarm Devices (VAD) for fire detection panels that offer a strong sound output and an optical warning with a beacon. The strong sound and the optical warning beacon cover many square metres.

## Installation and Connection

1. First, remove the retaining screw, place a flat blade screwdriver in the holes of the plastic hooks and remove the plastic cover (Image 1 on page 2).
2. Remove carefully the beacon connector (Image 2 on page 2).
3. Use the supplied mounting parts to install the siren's base at a height of 2.4 metres from the floor (figure 2 on page 3). Place the plastic plugs and fasten the screws to the mounting holes. Attention!! Make sure that the siren's base is installed upwards as shown in figure on page 4.
4. Insert the included sealing rings around the respective recesses.

5. Place the caps and make a hole in the center using a small screwdriver. Pass through the caps the cables to connect the device.

6. Connect the alarm buttons with two cables (as in Figure 1 if more than one) to the terminal block BUTTON. Then power the siren with 230V AC.

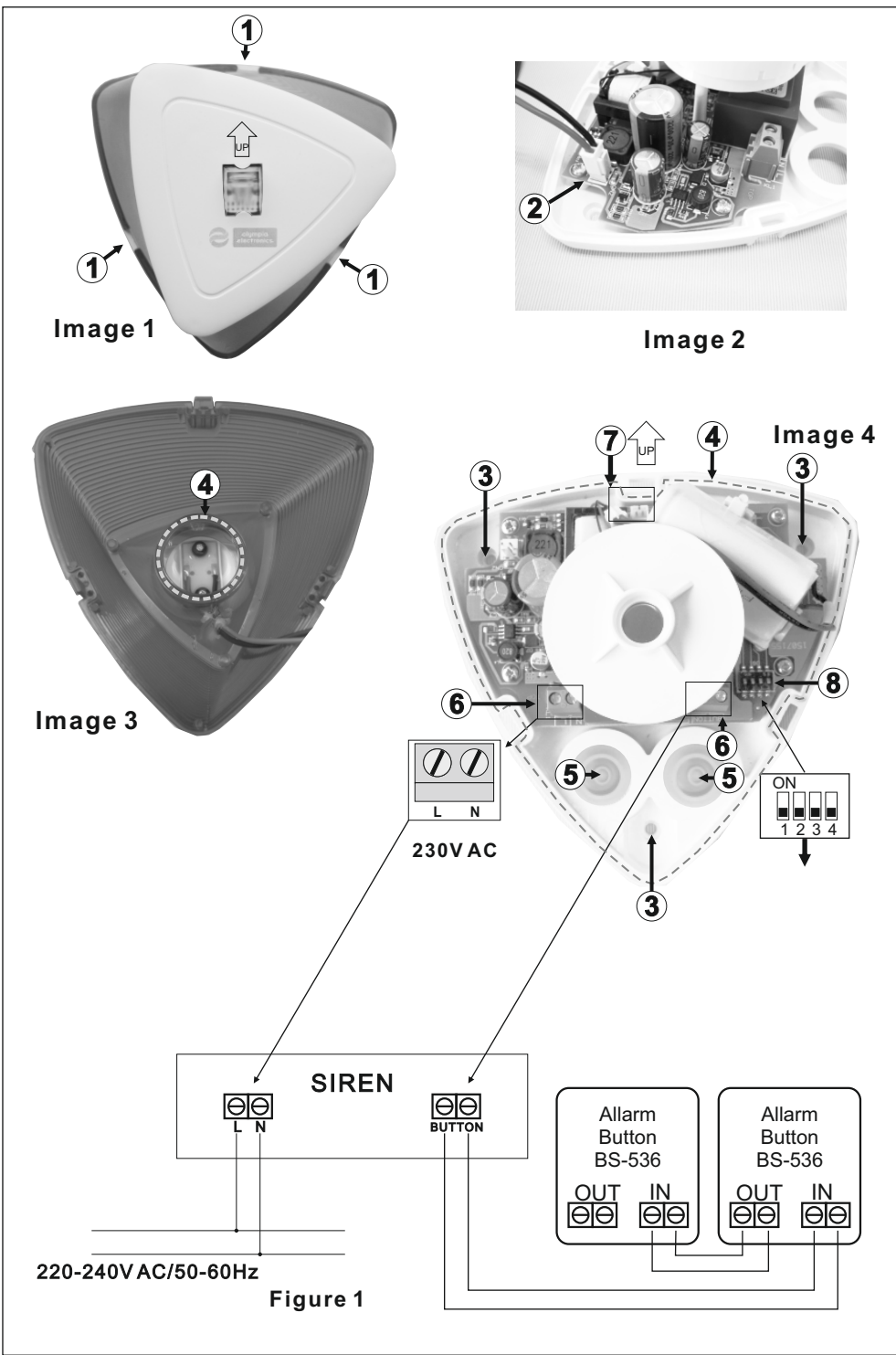
7. Connect the battery connector (Image 3 on page 2) and is ready to operate.

8. To select various **sound effects** use the dipswitch 1, 2 and 3 and choose the desirable sound effect, according to table 2 on page 3.

9. For **LED effect** variation use the dipswitch 4 (table 1 on page 3).

10. **Reinstall the beacon connector (step 2).** Refit the plastic cover until the plastic hooks are securely attached (step 1) and fasten the retaining screw (torque 0.6Nm). Attention!! Make sure that the siren's cover is installed in the correct orientation.

10. Test the device after installation.



**Figure 2 W -Wall Mounted Device**

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

**TABLE 1**

DSW	LED effect
ON	0.1 sec ON 1.9 sec OFF (0.5 Hz)
ON	0.1 sec ON 0.9 sec OFF (1 Hz)

**TABLE 2**

DSW	Nr	Sound effect	Tone in accordance to:	dB	mA
ON	0	970Hz continuous	BS5839-1:2002 - "evacuate" BS5839 Part 1 1988	89	682
ON	1	970Hz (1 sec ON - 1 sec OFF)	BS5839-1:2002 - "alert" BS5839 Part 1 1988	90	351
ON	2	From 1200Hz to 500Hz 1 sec	BS5839-1:2002 - DIN - Tone DIN33404 Part 3	94	639
ON	3	From 500Hz to 1200Hz $\sigma t$ 3.5 sec - 0.5 sec OFF	NEN2575 (Netherlands)	94	560
ON	4	800Hz - 970Hz alternate at 1Hz	BS5839-1:2002	94	650
ON	5	Intermittent 2850Hz (0.5 sec ON - 0.5 sec OFF)	ISO8201 High Frequency	92	230
ON	6	970Hz (0.5 sec ON 970 Hz OFF x3 times + 1.5 sec OFF)	ISO8201 Low tone - US Temporal Tone LF	89	241
ON	7	2850Hz (0.5 sec ON 2850 Hz OFF x3 times + 1.5 sec OFF)	ISO8201 High tone - US Temporal Tone HF	91	155