

BS-475 BS-475/B

Autonomous wireless siren with beacon for
the BS-468 / A burglar alarm system



TECHNICAL SPECIFICATIONS

POWER SUPPLY	Solar panels 12V / 1.4W
SOUND LEVEL	105 dB / 1m
BATTERY TYPE	6V/1.3Ah Pb (lead)
USAGE	Outdoors
COMMUNICATION FREQUENCY	868 MHz
COMMUNICATION RANGE	About 300m (in open area)
DEGREES OF COVER PROTECTION	IP20
PRODUCED IN ACCORDANCE WITH	EN 50130-4, EN 55022, EN 60950-1
COMPLY WITH	ETSI EN 300220, EN 50130-4, EN 55022, EN 60950-1 ERC REC 70-03
OPERATION TEMPERATURE RANGE	-10 to 60 °C
RELATIVE HUMIDITY	Up to 90%
CONSTRUCTION MATERIAL	ABS/PC, PC (red)
EXTERNAL DIMENSIONS	188x120x360 mm.
TYPICAL WEIGHT	1605 gr.
GUARANTEE	2 years (6 months for the battery)

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GENERAL

The **BS-475** (white) or **BS-475/B** (carbon) alarm siren is used exclusively with the **BS-468/A** panel. When the siren is activated, a red flashing light and a sound of 105dB which range is 1 meter distance, are produced. Inside the device there is a tamper that activates the siren if someone tries to remove its cover or pull the device off the wall.

INSTALLATION

The device is placed externally on a flat wall, at a height of more than 2.5 meters and away from places or objects that can prevent the transmission of its sound. It is recommended that the photovoltaic panel to be placed at a point where it has the best possible visual contact with the sunlight.

ATTENTION!!! All four retaining screws must be installed.

BEACON

The siren board has a LED (FLASH) jumper which can be set either in (ON) or in (OFF) position. If the jumper is set to the (ON) position, the beacon makes a short blink every 8 seconds in normal mode. Otherwise (jumper in OFF position) it is turned off until an alarm is triggered. In any case it will be constantly on in sound mode, regardless the jumper position. Also, upon arming procedure, the siren will "flash" 3 times when the system is armed, but it will "flash" once when the system is disarmed. This feature can be disabled from the control panel menu settings. Flash mode from jumper and Arm-Disarm indication function are two independent functions. Activating one of those settings will not activate the other and vice versa.

ALARM

The siren sounds alarm when the **BS-468/A** control panel sends the corresponding command. The beacon remains ON, as long as the sound lasts.

ALARM DURATION

The siren is in alarm mode as long as there is an alarm signal. At the **BS-468/A** there is a user's setting, to select 1 or 2 minutes. There is an absolute security limit of 5 minutes, above which it stops sounding irrespective of the command it is selected from the control panel. Also, if the battery voltage is low (lower than 5.5V), the siren will not sound irrespective of the command it takes from the control panel.

RANGE TEST

Once the device is connected to the panel's network, remove the battery and wait for 10 seconds. Then press the tamper and reinstall the battery. Wait until the beacon lights up. Once you release the tamper, the beacon will go out. In this case, the range TEST will start. During range test beacon blinks every second. The duration of range test is 60-95 seconds. When it is finished the beacon goes off and after 2 seconds the test result is displayed as follows:

Single blink: Strong signal. The device can be safely installed at this point.

Two blinks: Normal signal. The device can be safely installed at this point.

Three blinks: Weak signal. It is recommended not to install the device at this point.

There will be communication between the device and the control panel but there will be communication packets losses.

Four blinks: Out of range. The device is forbidden to be placed in this point.

Note: As soon as the test procedure is started, it is suggested that the device cover will be placed directly in order to simulate the actual communication conditions. The environment must be also adapted to the worst possible conditions (e.g. closed doors). Finally, in case of home improvements or renovation, it is suggested to perform a range test again.

SETUP

Installation should only be carried out by qualified technicians.

To install, follow the procedure below:

1. Remove the retaining screws from the front cover of the device (Photo 1).
2. Remove the retaining screws from the inner cover of the device (Photo 2).
3. Drill with a 6mm diameter drill bit on the wall and place the mounting materials at the 4 indicating points (Photo 3) so as to fasten the device.
4. Connect the battery (ATTENTION!!!! The red wire to the positive pole (+)), re-install the inner protective cover and fasten it with the retaining screws that you removed in step 2.
5. Re-install the front cover and fasten it with the retaining screws that you removed in step 1.
6. The device is ready to operate.

ATTENTION!! When the BS-468/A panel is in wireless installation mode and we want to insert the BS-475 or BS-475/B siren into the network, one of the 2 photovoltaic panel's cables in the KL1 terminal must be removed before we install the device in the network. When the device enters the network, the cable must be re-installed to the KL1 terminal.

SIREN SOUND SELECTION

The device has 8 different sounds. The selection is done by slider switches 1, 2 and 3 of the DS1 dip switch (Photo 4). Slide switch 4 is inactive. By default only the slide switch 2 is ON.

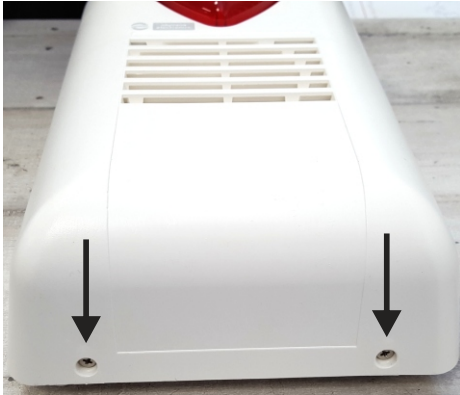


Photo 1
Front cover of the siren



Photo 2
Internal protective cover of the siren

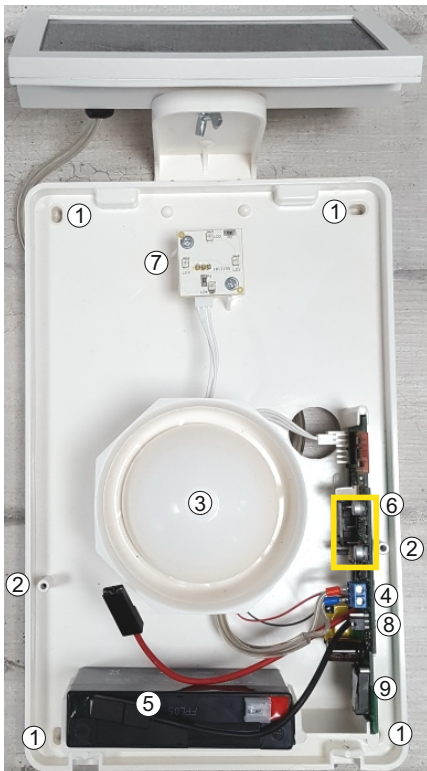


Photo 3
The main parts of the siren

1. Place mounting accessories
2. Retaining screws of the inner protective cover
3. Loudspeaker
4. Terminal block
5. Battery 6V/1.3 Ah
6. Base self-protection tamper
7. Beacon
8. JUMPER FLASH
9. Front cover self-protection tamper

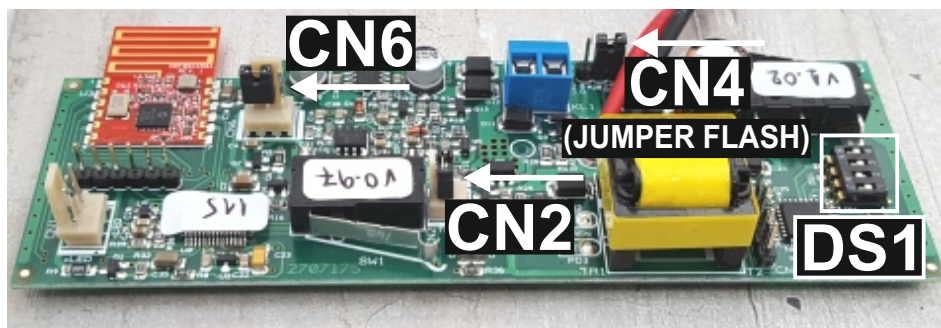


Photo 4. Main board of the siren.

ATTENTION!!! Do not remove or move the jumpers located at positions CN6 and CN2.

BATTERY REPLACEMENT

The siren checks its battery voltage and transmits the information to the panel. If the panel displays a low battery indicator for extended periods of days with high sunshine, consult your installer, as the battery may need to be replaced. This must be done by a qualified technician with the control panel in **service mode**.



It is not allowed to discard batteries in to common trash bins, they must be discarded only in battery recycling points. Do not incinerate.

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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