elmes® electronic

WIRELESS OUTDOOR SIREN & STROBE   WSS (EN)

WSS siren and strobe is alarm signalling device with loud siren and strobe light designed for outdoor installation in alarm and security systems. In addition to its alarming functions the siren features system arming and disarming confirmation sounds allowing home or property owner to external signalled arming and disarming of the system with the use of a key-fob remote control transmitter, just like remote setting on & off of a car alarm. Microprocessor's control of the WSS siren along with two-way transceiver communication enable remote selection of siren's functions using control panel keypad. Though the siren is a fully supervised device dedicated to use with **CB32 (firmware v. 2.10 and up)** panel , it may also be used in any alarm system, also hard-wired, when installed with optional "wired-to-wireless" interface module WSM. Commands and monitoring signals receipt are confirmed for security reasons. Other important features include anti-sabotage instant alarming and AC power supply failure notification. Included with the siren 12V/1.2Ah rechargeable battery is the master source of power supply to the siren and the strobe light both in normal operation and in case of AC power failure. The battery is charged by an external 230VAC/12VDC-100mA power pack (included) plugged into 230VAC mains outlet. The WSS siren & strobe may also be powered from wired alarm 13.8VDC power line or any external 13.8VDC battery backup power supply.

Signalling modes selected by JP1…JP3:

JP1 - used for selection of siren's sound modulation tone (fast/slow).
JP2 and JP3 are used for selection of siren and strobe signalling modes on system arming and disarming with the use of remote control transmitter (this function must be selected to on in CB32 control panel).

JP2	JP3	signalling pulses modes
ON	ON	strobe flashes + loud beeps
OFF	ON	strobe flashes + quiet beeps
any	OFF	strobe flashes, no beeps

Operating range test prior to siren installation

IMPORTANT: the test should be carried out with siren not programmed to CB32 panel! To enable the radio range test connect mains power pack cable to the power supply terminals and wires to the battery in the siren. Within 30 seconds (sabotage alarm disability period) close the top cover and install protective screw. Select "Radio reception range test" function in the control panel (CB32 Service Settings 3.4) and place the siren and the control panel as close to their intended installation places as possible. With other person help trigger radio transmissions in the siren by plugging in and out siren's mains power pack. Every time the power pack is plugged in and out of mains outlet pulsing radio transmission is triggered lasting few seconds that can be seen and evaluated on 16-point bar graph scale of the control panel LCD display. Signals levels displayed in less than six points of the scale disqualify selected installation places of the siren and/or the control panel. A minimum of six or seven points signal levels can be accepted. To find acceptable operating range siren and/or control panel should be displaced or moved closer and range test repeated as many times as necessary.

Programming WSS siren & strobe to CB32 alarm control panel (*):

1. Select wireless detectors learning mode in the control panel (CB32 Service Settings 3.3) and program the WSS siren to alarm zone 29 with radio signalling transmissions triggered in one of two following ways:
   a. connect or disconnect the mains power pack while battery is connected and siren's cabinet closed and screwed (recommended),
   b. connect siren's battery when mains power pack is not connected,
2. Set desired alarming time at OUT1 of the control panel (S.S. 6.4) that equals desired alarming time of the Wireless Siren.
3. Set desired WSS siren check-up time interval (S.S. 6.5) in range of 1 to 99 minutes - as standard the interval is set to 20 minutes. Set on the radio link testing function (S.S. 8.3).
4. Define the control panel reaction to CB32-WSS radio link failure: if a loud alarm is to be set on besides failure signalling in the CB32 (flashing "ALARM" LED), the function must be set on in the control panel (S.S. 8.12).
5. If remote control transmitter arms & disarms system, the armed/disarmed beep signalling by external siren should be set active (S.S. 8.10).

(*) Detailed description of programming WSS siren to CB32 wireless panel can also be found in CB32 manual.

> _WARNING! Due to high voltage shock danger all installation procedures with WSS siren must be made with battery terminals and mains power supply disconnected. Prior to installation of ready programmed siren and also during maintenance procedures alarm zone 29 in the CB32 panel should be disabled in order to avoid sabotage alarm._

Installation

The WSS siren should be installed strobe light downwards in visible but not easily accessible place of building facade wall. The mains power pack supply wire should be lead through a hole made in the wall right under the siren. Mains power supply wire connection is shown on diagram as option 1. Option 2 shows connection of wired alarm supply line used to power the WSS siren. Prior to final installation of the siren communication tests with the control panel should be taken to find best radio link place (maximal obtainable radio signals level). Connecting wires to internal battery wire colours must be observed as follows: red wire connects to (+) battery terminal, black wire to (-) battery terminal.

<u>ADVICE:</u> during first 30 seconds from power supply connection, anti-sabotage switches of the WSS siren are disabled allowing safe wire installation and top cover closure. Fixing top cover after that time may trigger sabotage alarm.

It is recommended to test the siren regularly and replace battery after 3-4 years of operation or, always when siren's testing shows its low energy capacity.

Specification

- mains power pack 16VDC/100mA (included) or
13,8VDC line supply, 12V/1.2Ah battery (included),
- microprocessor controlled CE433,92MHz transceiver,
- 120dB siren and strobe light with anti-sabotage protection,
- weather resistant with operating temperature range: -20 to +40ºC,
- external dimensions: (L/W/D) 260/145/82mm.

POWER SUPPLY OPTIONS
1)
OR
2)
13,8V

SCREW HOLES
BATTERY
POWER SUPPLY TERMINALS
SCREW HOLES
ANTI-SABOTAGE SWITCH
JUMPERS JP1-4
ANTENNA

Manufacturer

ELMES ELECTRONIC, 54-611 Wroclaw – PL, Avicenny 2, tel. +48717845961, fax +48717845963

Manufacturer's Limited Warranty:

Elmes Electronic alarm & security products carry two years manufacturer's warranty as from the date of purchase. The warranty is limited to the replacement of faulty original parts or repair defects of improper manufacture. Damage, faulty use or improper handling by the user or installer as well as any changes in product's hardware or software caused by the user violets the warranty and all due repair costs will be charged. Elmes Electronic shall not be responsible for any human or material damage caused by its products failure to operate correctly.