



SOLO IBS
Intelligent Back-Up
Siren
FOR OUTDOOR USE

Manual
20 / 06 / 2013

INTRODUCTION

Thank you for choosing **Solo IBS** intelligent electronic back-up siren for your security installation. We hope you will be fully satisfied with our product. The **Solo** siren has been designed to give full performance with maximum reliability and durability. Each siren is fully tested during production to assure best quality for our products. Please read this manual carefully before starting installation.

Warning: The siren cannot be used without battery, with faulty battery or with reversed polarity battery because it may damage the devices of security system.

GENERAL FEATURES

- Outdoor battery back-up siren with flash light
- Double housing – ABS outside and metal inside with IP34 protection level
- Resin spilled weatherproof electronics
- Reversed polarity and short circuit protection
- Service input to disable siren from the alarm control panel
- Flashing lamp control input (continuous or signal flashing)
- Siren power supply, flashing lamp trouble output
- Positive or negative siren starting
- Continuous frequency modulated sound (2 sound types)
- Configurable maximum signal number (unlimited / disable after 4 signal starts)
- Visual and acoustic test at power-up
- Alarm on trigger, tamper and external power line failure
- Central and standalone tamper system
- 3 minutes alarm period
- Easy installation with drill plate

CONNECTORS AND CONFIGURATIONS

The terminal connectors of the siren electronic board are the following:

LAMP	Slide terminals for flashing lamp
BELL	Slide terminals for sounder
BAT	Slide terminals for siren back-up battery
SW	Slide terminals for siren tamper switch
DC+	+13,8V dc power (min. 750 mA)
GND	Negative external power
SV	Service input to disable siren sounder (activation with negative connection)
OUT	Power supply, flash trouble signal OC output (it closes to negative at trouble)
FL	Flashing lamp activating input (activation with negative connection)
ST	Siren (sound and flash) activating input (activation with negative or positive)
TMP	Siren external tamper output (for 24hour tamper circuit on alarm control panel)

Note.: If you change 1., 2. or 3. jumper settings you need to restart the siren (power supply reset) to apply changes.

1. jumper – siren sound type

- Siren sound type 1
- Siren sound type 2

2. jumper – siren signal starts limitation

- Unlimited number of siren signal starts
- Disable ST after 4 starts (for 1 hour)

3. jumper – flashing lamp FL input operation

- Lamp is flashing 2 times at FL input activation, 1 time at deactivation.

Siren start delay (2 sec) is disabled (for example if arm / disarm sound on ST input).

This FL function can be used to signal arming / disarming with the siren lamp (1 flash – system armed, 2 flashes – system disarmed).

- Lamp is continuously flashing during FL input activation.

Siren start delay (2 sec) is enabled.

S jumper – siren starting

- Positive siren starting at ST input
+ S – (+BELL, +PGM)
- Negative siren starting at ST input
+ S – (-BELL, -PGM)

SIREN CONNECTIONS

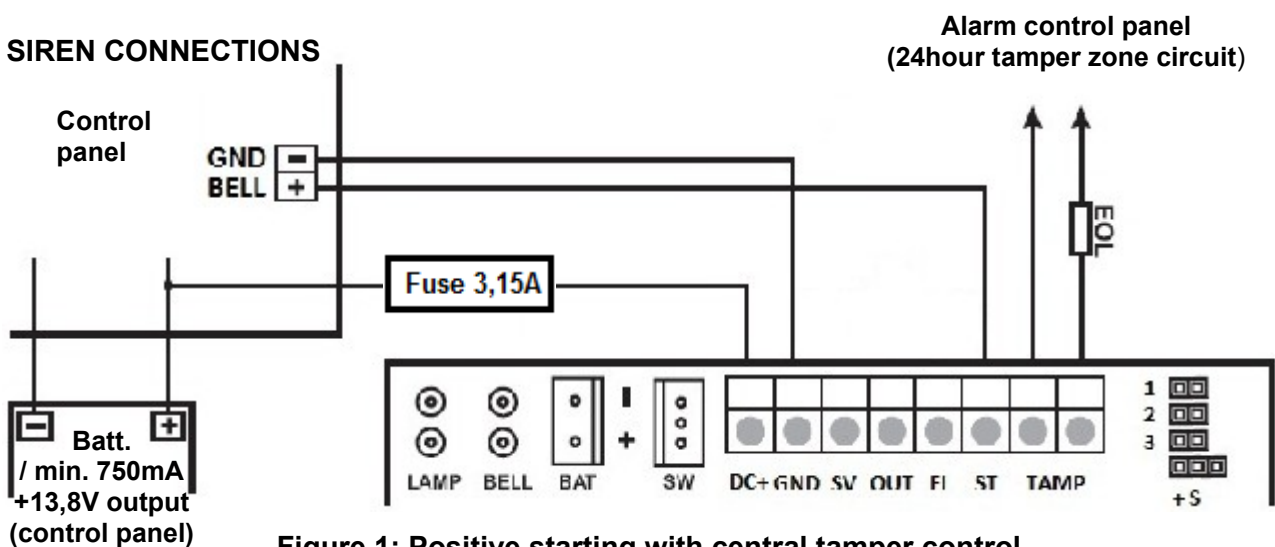


Figure 1: Positive starting with central tamper control

- The siren is active (sound and flash) during the active state of ST input (up to 3 minutes).
- The siren tamper switch is connected to the zone of the alarm control panel. The control panel detects the siren tamper activation and controls the siren according to the configuration.

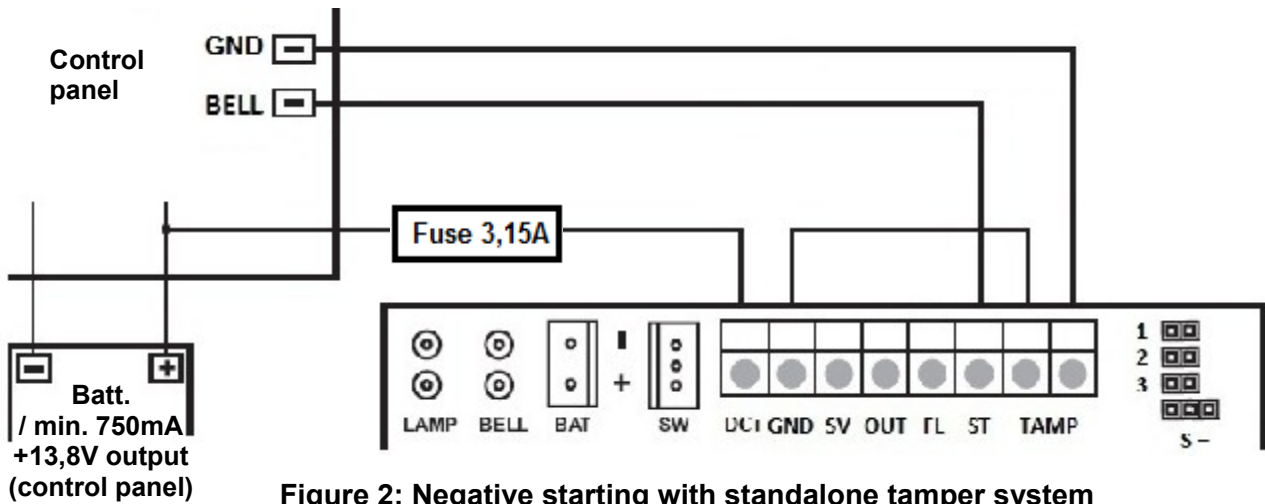


Figure 2: Negative starting with standalone tamper system

- The siren is active (sound and flash) during the active state of ST input (up to 3 minutes).
- Activation of the siren tamper switch cuts off the siren external power supply circuit, which generates siren activation until restoring the power supply circuit (up to 3 minutes).

OTHER FUNCTIONS

Tamper protection

Opening of the plastic housing or removing the siren from the wall cause tamper alarm. The tamper circuit can be connected to the alarm control panel zone - in the way as it can be seen on Figure 1. In this case the control panel activates the siren. In another way the tamper circuit can be connected in the way as in Figure 2. In this case the external power supply circuit cut-off controls the siren.

OUT output

With this OC output there will be report to the control panel in case of power supply failure and flash lamp trouble.

SV service input

The acoustic sound can be disabled with this negative controlled input. This function is useful at service operation, in this case the defined OC output of the control panel will disable the sound of the siren. For example: the siren sound can be disabled with controlling Mono / Bi Switch type outputs from the keypad.

When the input is activated, the sounder has a short voice and the lamp flashes once, which

means the siren is disabled. After this:

- Activation of the ST starting input doesn't control the siren;
 - The external power supply circuit cut-off only activates the lamp flashing;
 - The flashing lamp flashes in every minute.
- When the input is off, the sounder will sound two horns (without lamp flashing), it means the siren is working again in normal mode.

INSTALLATION

First of all choose a right place for mounting the siren. The wall – where the siren will be mounted – should be flat, without great hollows and excessive protrusions to not prevent the proper operation of tamper switch. After it is decided where to install, fix the siren with the supplied screws according to the drill pattern plate. Connect the wires to the siren terminals. Be sure there is no voltage to the wires when you connect them. By means of the setting jumpers choose the required operation mode for the siren.

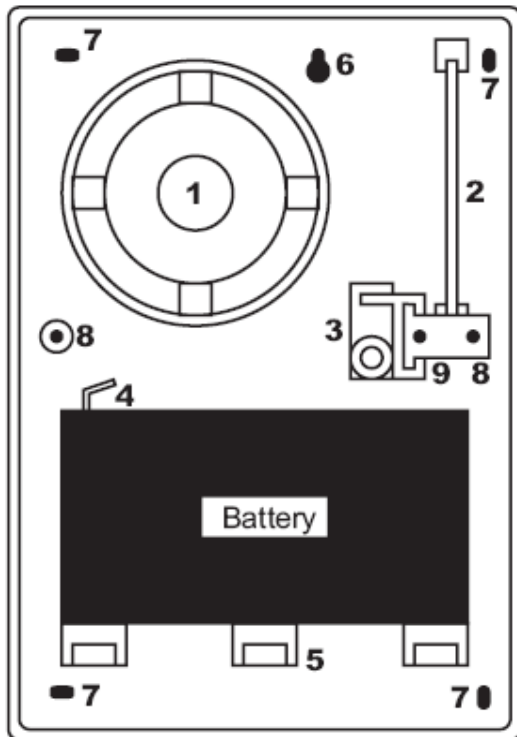
At first connect the battery according to the right polarity. At this time the lamp flashes once, and the acoustic sounder has a short voice to signal

the operation of the siren. Mount the metal cover and fix the plastic cover. Check the tamper switch for proper closing. Fix the plastic cover with the main screw.

For external power supply there should be 13,8Vdc voltage from a power supply applicable to provide at least 750 mA current load. When you connect the external power supply, the lamp flashes longer, and the sounder gives a short voice. From that time the siren is ready to use. Be careful at the installation to avoid unwanted annoyance of the surroundings.

Note: Incorrect connection of wiring and accumulator may damage the device.

COMPONENT IDENTIFICATION



1. Acoustic sounder
2. Electronic board with terminals
3. Tamper micro switch with slide
4. Battery
5. Battery holders
6. Hole for wall hook during installation
7. Holes for wall fixing screws
8. Holes for inside metal cover fixing
9. Hole for the main cover fixing screw

TROUBLESHOOTING

The siren doesn't start to work:

- At first always connect the battery terminals, only then the 13,8 V external power supply.

Siren signals stop working after few signals:

- Check the state of 2. jumper.

The lamp doesn't flash when you connect the back-up battery of the siren:

- Check the slide terminals of flashing lamp inside the siren and operation of the lamp.
- Check the slide terminals of back-up battery and the battery charge. There should be about 12,6 V without load.

The siren starts regularly for a short period without any known reason:

- Check the battery of alarm control panel. In case of a faulty / missing battery, the power voltage fall during battery test completed by alarm control panel may activate siren.

The siren sounder and lamp is active right after connecting the external power supply:

- Check the state of ST starting input.

Note: Always check battery charging voltage after siren start and maintenance (battery change). It should be about 13 – 13.5 Vdc.

TECHNICAL SPECIFICATIONS

Power supply	13.8 ± 0.3 V DC
Maximum current load	max. 2 A
Standby current load	max. 60 mA
Maximum current load from external power	max. 750 mA
Back-up battery	12 V @ 7.0 Ah
Operating temperature	-30 °C / +50 °C
Sound pressure at 1m	128 dB (A)
Case protection level	IP34
Sizes (width x height x deep)	180 x 270 x 90 mm
Weight (without battery)	2 kg