



SOLO IBS

Intelligent Back-Up Siren

Manual – 18 June 2014



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.

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)

- OUT** 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 (with negative or positive)
- TMP** Siren external tamper output (for 24hour tamper circuit)

S jumper – siren starting

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

SIREN CONNECTIONS

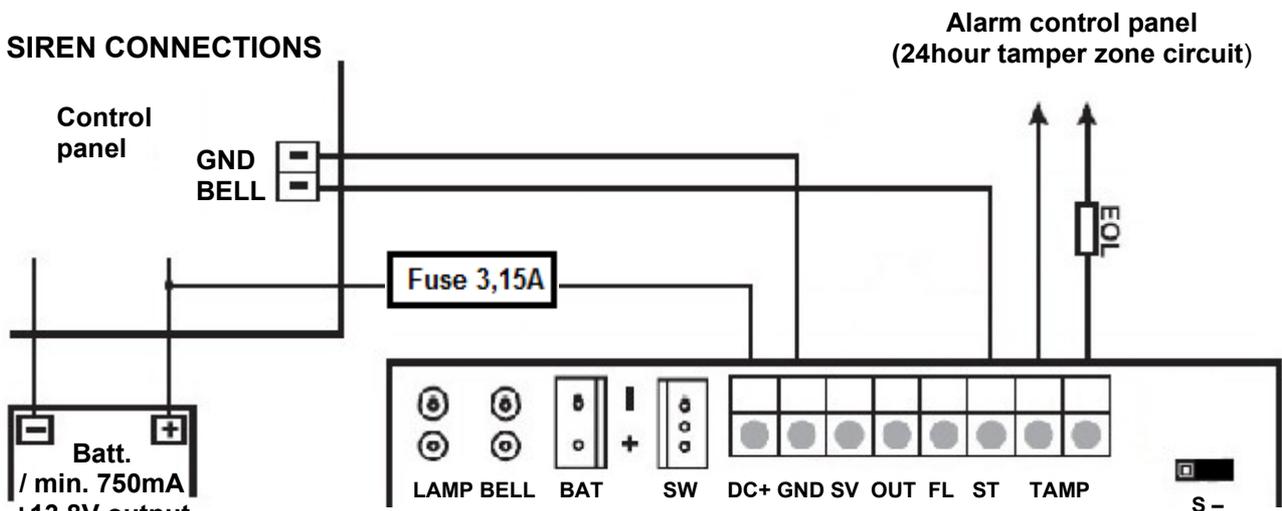


Figure 1: Negative starting with central tamper control

- The siren is active (sound and flash) during the active status of ST input (up to 3 minutes). After 3 minutes sound stops, but flash continues until ST input is active.
- 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.

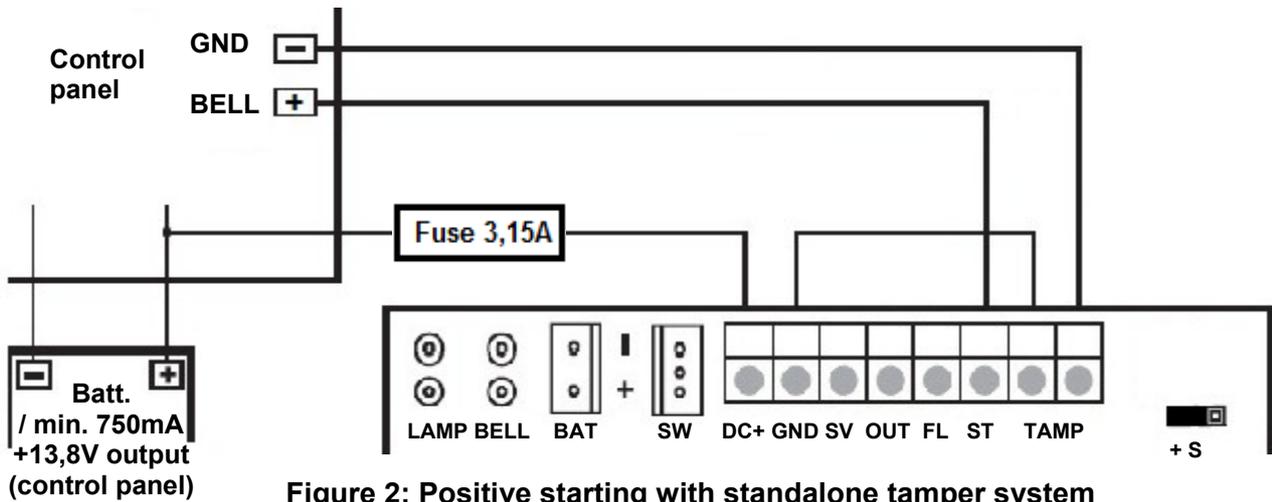


Figure 2: Positive starting with standalone tamper system

- The siren is active (sound and flash) during the active status of ST input (up to 3 minutes). After 3 minutes sound stops, but flash continues until ST input is active.
- Activation of the siren tamper switch cuts off the siren external power supply circuit, which generates siren activation until restoring the power supply circuit / tamper switch (up to 3 minutes). After 3 minutes sound stops, but flash continues slowly in every 10 seconds until restoring the power supply circuit / tamper switch.

OTHER FUNCTIONS

SV service input

The acoustic sound can be disabled with this negative controlled input. When the input is activated, the sounder has a short voice and the lamp flashes once, which means the siren sound is disabled. If the input is active, it means the following:

- Activation of the ST input starts lamp flashing only;
- 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

- Choose a flat surface for mounting the siren.
- After the connections **first connect the battery**, then external power supply (**min. 750 mA**) to DC+/GND connectors.

TROUBLESHOOTING

The siren doesn't start to work:

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

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
IBS back-up battery	12 V @ 7.0 Ah 12 V @ 4.5 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