IRENE BASIC
AUTONOMOUS OUTDOOR SIREN

FEATURES

Autonomous and self-contained outdoor electronic siren equipped with fifteen built-in parametrically placed high power SMD LEDs, which correspond to a 300-degree viewing angle, so that the siren is visible from any viewing angle.
Available in a wide range of lenses and front cover colors for easy combination with any exterior shade of the building.

The siren is made of a combination of durable polycarbonate and ABS to minimize weather vulnerability. Internally, the electronic circuitry is protected by an extra plastic cover. The TAMPER protection covers the outer lid and prevents the siren's removal from the wall. It has an internal level, that makes the correct mounting of the siren easier. The speaker is made of a reinforced magnet and the output reaches up to 125dB / 1m. A special socket 12V buzzer for extra audio updates (eg arm-disarm) is available.

GENERAL FEATURES

To make the installation process easier, it is not necessary to connect the power supply for the alarm panel directly (in cases that the siren is placed before the panel.

- 5 different sound types
- 3 different sound volumes (high / progressively rising / low)
- the five central LEDs have 14 modes of flashing into standby mode.
- the side LEDs have 5 ways of flashing when the "FLS" is triggered
- 1 "TRG" input for variable sound emission and flashing
- 1 "FIRE" input for steady sound emission and flashing
- the TRG / FIRE / FLS input modes are dependent on the choice of the Dip Switch No1 & No2:

  1. LOSE (-) By breaking the negative voltage

  2. LOSE (+)By breaking the positive voltage

  3. GO (-) By application of negative voltage

  4. GO (+) By application of positive voltage

- Battery protection from reverse polarity with LED light
- True Low Battery error at "LB" output, showing a positive voltage when the battery voltage is below 10.2V. Resetting the output to normal mode is done after 45sec and if the battery voltage rises above 10.2V.
- In the event of a power failure, the siren is activated and beeps depending on the programming via the Dip switch selected by the installer (selected).
- Cover protection in the case of opening and removal from the wall (selected by Dip switch).
- "RST TMP" (reset tamper) input to temporarily turn Tamper off if we want to open the siren cover and change the battery. Apply positive voltage to the "RST TMP" input for as long as the siren cover is open.
- Additional12V buzzer place for extra audio updates (eg arming-disarming).
- "ALARM OUT" output. Auxiliary output. There is another output for the activation of other applications, such as headlights.
- The siren can also be used without its battery.

SPECIFICATIONS	IRENE
Rated voltage	12-14V DC
Consumption at rest	6-20mA (depending on the LED mode)
Consumption while the siren is activated	460-600mA with battery/760-900mA without battery
Operating frequency	900-3500Hz
Buzzer level	125Db/1 meter
Consumption of LED FLASH	15x20mA
TAMPER protection switch	On the cover and on the wall
Contact switch TAMPER N.C/N.O	600mA/125V DC
Duration of the TAMPER alarm	90 sec
Inputs	by applying or breaking the positive or negative voltage
Leakage level	IP 44
Battery	12v/1,2 or 2,3 Ah
Weight	1800 grams
Dimensions	250/350/80 mm (LxHxW)

INDEX	
12V-/+	Power supply of the siren from the panel
TRG	Primary input for the activation of the sounder and central LEDs (BELL) from the panel (the mode of activation is dependent on DIP SWITCH 1 & DIP SWITCH 2)
FIRE	Secondary input for the activation of the sounder and central LEDs (FIRE) from the panel (the mode of activation is dependent on DIP SWITCH 1 & DIP SWITCH 2)
GND	0V
RST TMP	By continuous application of (+) from the panel, we switch off the siren's TAMPER so we can change the battery to the siren-SERVICE
FLS	Input for the activation of LED side panels from the panel (the mode of activation is dependent on DIP SWITCH 1 & DIP SWITCH 2)
LB	low battery error output with positive output when battery is discharged below 10,2V
TMP OUT	TAMPER of the siren, alarm output -0V
ALARM OUT	Auxiliary ALARM output which, at the same time as the siren is turned on, also has an output for activating another device, e.g. Headlamps (applied -0V cut off during alarm)

DIP SWITCH EXPLANATION	
DIP SWITCH No1 (+/-)	Choice of positive or negative voltage activation at the TRG / FIRE / FLS inputs.
DIP SWITCH No2 (LOSE/GO)	Voltage activation option for TRG / FIRE / FLS inputs (voltage application or continuous voltage cut-off).
DIP SWITCH No3 (TMP/OFF)	Option to enable or disable electronic TAMPER.
DIP SWITCH No4 (DC/OFF)	Option to enable or disable siren activation when the siren supply is cut off from the panel (eg cable cut)

TRIGGER, TAMPER, DC ALARM MODE

1. By combining Dip switch 1 & 2 we can select the type of trigger we want

- Dip switch 1: when is ON, it selects negative voltage activation.
- Dip switch 1: when is OFF, it selects positive voltage activation.
- Dip switch 2: when is ON, it selects siren activation by applying voltage.
- Dip switch 2: when is OFF, it selects siren activation with voltage cut.

2. The choice of the Dip switch 3 determines whether the TAMPER switch will be on or off. In the ON position Tamper works within the electronic circuit, and in the case of opening the siren cover, it will immediately sound for 90 seconds. In case the Dip switch 3 is OFF, the tamper is not connected electronically to the board but only on the "TMP OUT" terminal.

3. When the Dip switch 4 is ON, the siren is activated during a power supply cut. When the Dip switch 4 is OFF, the siren is deactivated during a power supply cut.

EXPLANATION OF PROGRAMMING KEYS	
MENU	Input button in the programming MENU.
SELECT	Button to select settings in programming.
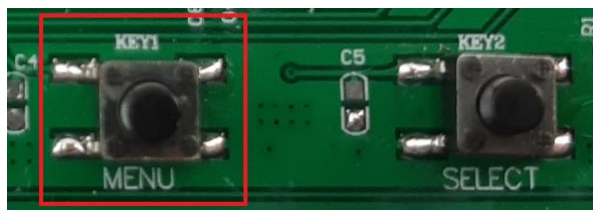
Programming the IRENE siren

Siren programming is carried out to select the sounds and their volume, as well as the mode of flashing of the side and center LEDs.

To enter the "IRENE" programming, follow these steps:

1) Open the siren cover / Open TAMPER.

2) Connect the battery terminals correctly to the red and black terminals respectively.

3) Press the MENU button for 2-3 seconds until you hear a "beep". LED 1 (SOUND) lights on the right.

4) Press the SELECT key gradually and hear the various sounds and their volume. Press the key until you find the desired sound through 15 combinations. (sound and volume selection).

5) After finding the desired sound and volume, press the MENU button and go into the programming of the central LEDs.

6) LED No2 (HORIZONTAL LED) lights up immediately.

7) Press the SELECT button gradually and choose between 14 different configurations of the central LEDs.

8) Once you find the combination you want, press the MENU button and go into the programming of the side LEDS. (left right).

9) LED No3 (VERTICAL LED) lights up immediately.

10) Press the SELECT button gradually and choose between 5 different configurations of the side LEDs. (left & right).

11) After finding the combination you want, press the MENU button.

12) LED No4 (LISTEN SOUND) lights up immediately.

13) Press the SELECT key to hear the sound you successfully saved last.

14) After listening to the sound, press the MENU button.

15) LED No5 (CHECK FLASH) lights up immediately.

16) Press the SELECT key and activate all the side and center LEDs according to the last successful save.

17) After seeing the combination of flashing, press the MENU key continuously for 2 seconds. After hearing a prolonged "beep", you have exited successfully from programming.

Installation

To install the siren, you have to follow the following steps:

1. Place the siren on a high point where it is not easily accessible, to be safe from sabotage but also visible from afar.

2. Mount the siren base securely with screws and the corresponding plastic plugs with the help of the integrated spirit level on the siren's base (back).

3. After screwing the siren, you must pass the connection cable that comes from the alarm panel into the siren's base and connect the cables to the siren. Then connect the terminals (black & red) to the battery terminals and proceed with programming.

4. After programming, close the siren / with the tamper cover. The siren enters normal mode, as the central LEDs start to flash based on the program you selected.

5. When the siren is powered by the alarm panel, it is ready for use.

Siren Reset

To reset the siren to factory settings, press the MENU and SELECT buttons for 3sec at the same time, and the LEDs will flash as and a confirmation sound will sound. The siren returns to Normal Mode automatically when it is in standby mode after 1 minute of inactivity.

Battery Change

To perform a service, you must connect the clone of the cable that you have connected to the siren RST TMP to the alarm panel, at the + 12V of the panel until you change the siren battery. After you finish and close the siren cover correctly, remove the clone from + 12V. Now the siren has Tamper turned on again.