



# TRE i SYSTEMS S.r.l.®

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: Tre i Systems

## ELIMINATOR 12

### 1.0 DESCRIPTION

The **Eliminator 12** siren is protected against wall and cover removal and may incorporate a rechargeable battery of up to 7.5 AH. 12V. This siren may incorporate also an optional sensor which protects the siren from the input of foam (\*). All materials used are not subject to corrosion (plastic base, zinc plated steel inner cover and polycarbonate outer protection cover). The **Eliminator 12 housing** is built so that it offers the maximum protection against adverse atmospheric conditions. With this combination the siren will offer a long and lasting life span.

For this siren the **TRE i - Systems R & D.**, has specially developed a new sensor which protects the inner portion of the siren from the introduction of POLYURETHANE FOAM to suffocate the sound output (\*). This same sensor is designed also to protect the siren against violent shock due to hammering etc. of the siren housing. The frequency output of this siren has been studied to be heard at great distance and has an output of 120 db at 1 meter.

Other characteristics:

- Trigger with negative or positive cut
- Trigger with N.C.
- Input terminal to stop an alarm trigger
- Independent information from the LEDs
- Anti-foam test (\*)

### 2.0 INSTALLATION

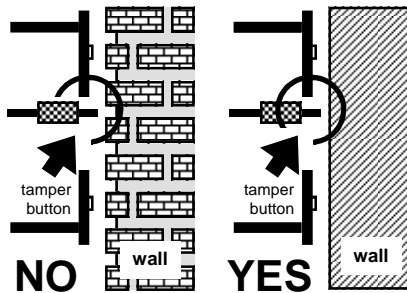
For easy and correct installation, follow the instructions below:

- Fix the base of the siren to the wall and have all cable pass through the holes.

- Be sure that the wall tamper switch stem does not end up in a hole in the wall or between bricks.

- Connect the terminal "TAMPER" with the A.S. (24 hour) of the control panel.

- Connect the battery terminals to the battery respecting the polarity: **The leds will begin to flash.**

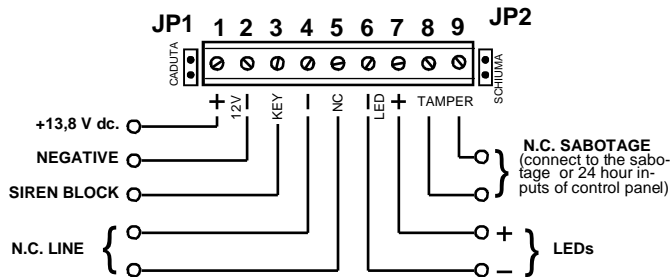


- Connect the terminal +/-12V that come from the control panel: **the leds will stop flashing and after 22 seconds the siren will become active.**

- Complete the installation with the screws provided by fixing the inner steel cover and the outer polycarbonate cover.

- The siren is ready to function..

### 3.0 CONNECTIONS



**Terminal 1, 2** - + 13,8 Vdc. - Power input to the siren to recharge the stand-by Battery.

**Terminal 3** - Siren cut-off. By connecting a negative to this terminal both (siren and flasher) will be cut off. Normally a key-switch is used.

**Terminal 4, 5** - This is a normally closed contact. When opened the siren will trigger.

**Terminal 6, 7** - Input to activate the RED led. This will give indication of control panel armed or disarmed. (power from +3V dc. to +18 Vdc.)

**Terminal 8, 9** - Alarm trigger input for sabotage or protection against foam.

**Jumper JP1 & JP2** : See paragraph 6.

### 4.0 SIREN CUT-OFF OR BLOCK

This function is useful in case of a false alarm. With a remote key-switch, a negative command may be supplied to the terminal 3 and by so doing the siren will be silence even during an alarm trigger.

**N.B.** With the alarm cut-off in function, any attempt to tamper with the siren will cause the opening of the N.C. contacts (terminal 8 & 9) and therefore generate and alarm trigger directly in the control panel.

### 5.0 SIREN START-UP

After having installed the **Eliminator 12** siren, it will automatically start-up 22 seconds after having connected the + 13.8 V dc. To terminal 1.

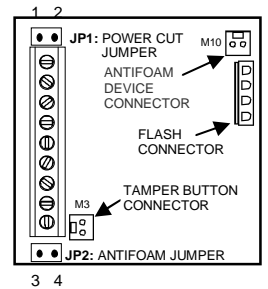
### 6.0 JUMPER OPTIONS

The power cut trigger function is disable when the jumper is on both of the pins 1 & 2. To have an alarm trigger it is necessary to use the N.C. contact terminals 4 & 5:

Opening the normally closed terminals 4 and 5. If you need an alarm trigger when the +13.8 Vdc Power input is cut, you must remove the jumper on pin 1 & 2.

When the **JP2** is on pin 3 & 4 the antifoam function is disable (all other functions will remain active).

To activate the antifoam function, the jumper must be removed on pin 3 & 4 and the antifoam device must be connected on M10 terminal.



### 7.0 TECHNICAL CHARACTERISTICS

- Power to stand-by battery: from 13,5 Vdc to 14,2 Vdc
- Alarm trigger with power below: 5,5 V
- Minimum alarm trigger tension: 10,5 V
- Current drain in stand-by: 18 mA
- Current drain with siren triggered: 1.6 A
- Working temperature: from -15 C° to + 55 C°
- Sound output. 120dB 1,8 Hz at 1 meter.
- Sound frequency: 1600 Hz / 2500 Hz
- Led flasher: Low power consumption and long life
- Siren start-up time: 22 seconds
- Reset time between alarms: 22 seconds
- Maximum siren alarm trigger duration time: 3,5 minutes.

In the case of a longer alarm time provided by the control panel, the siren flasher will continue to flash until normal conditions have been established.

- New siren antifoam protection system developed by (TRE i - Systems R & D)(\*)

\* **OPTIONAL on request.**

- Protection against polarity inversion
- Normally closed trigger input
- Input terminal to stop an alarm trigger
- LED indication to show control panel armed
- Dimension: 285x220x90 mm.
- Weight without backup battery: 2.8 Kg.

\* **OPTIONAL on request.**

Latest revision: 02-23-2012

