

# Technical manual for Art. 21047125 - 21047125C - 21047125G

## Wired Siren



### Warning

- Install the equipment by carefully following the instructions given by the manufacturer and in compliance with the standards in force.
- All the equipment must only be used for the purpose it was designed for. Comelit Group S.p.A. does not assume responsibility for improper use of the apparatus, for modifications made by third parties for any reason or purpose, or for the use of non-original accessories and materials.
- All the products comply with the requirements of the 2006/95/EC directives (which replace directive 73/23/EEC and subsequent amendments), as certified by the CE mark on the products themselves.
- Do not route the riser wires in proximity to power supply cables (230/400V).



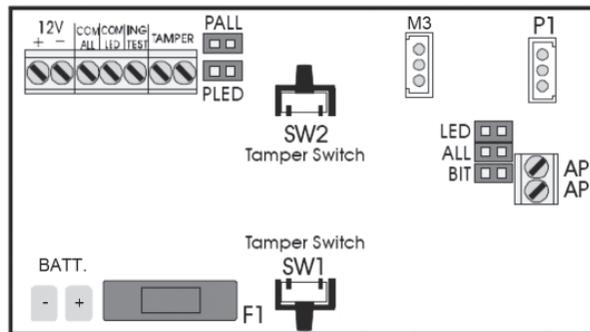
The device is a self-powered siren with a neodymium dynamic magnetic diffuser, in plastic housing with metal screen. It has a solid state flashing light, system status indicator and programmable inputs, with integrated configurable pull-ups to allow control via open collector outputs.

### Technical characteristics

Power supply	min 11.5 V, max 14.5 Vdc
Absorption	5 mA in standby (not including battery), 1.9 A in alarm with siren and flashing light, 2.25 A at inrush
Battery polarity reversal	via 10 A rapid fuse (F1)
Battery	12 V 2.0 A/h battery (not supplied)
Sound power	120 dB at 1 m (neodymium diffuser)
Max. ringtone time	6 minutes
Indications	1 flashing light for alarm indication and 1 system status LED
Housing	plastic with internal metal protection
Colours available	white, grey and chrome
Protection	container anti-tear and anti-removal tamper protection
Indications	3 coloured LEDs for system status and partial control indication
Applicable standards	electromagnetic compatibility: EN 50081-1 (interference emission) and EN50082-2 (resistance to interference)
Approvals	CE
Operating temperature	0° to 50°C
Storage temperature	-10° to +70°C
Relative air humidity	5 to 95% with no condensation
Dimensions	295x230x115 mm

## CONNECTION TERMINALS

<b>+12V</b>	Power supply positive pole
<b>-12V</b>	Power supply negative pole
<b>COM ALL</b>	Alarm lock indication (set PALL and ALL jumpers)
<b>COM LED</b>	System LED control indication (set PLED and LED jumpers)
<b>ENG. TEST</b>	Service indication: if set to 12 V, locks alarms and resets the alarm memory
<b>TAMPER</b>	Tamper contact terminals



## JUMPERS AND CONNECTORS

<b>ALL</b>	Determines to which COM ALL terminal condition the alarm status corresponds. If open, the alarm corresponds to a lack of voltage on the terminal. If closed, the alarm corresponds to detected voltage on the terminal.
<b>PALL</b>	If closed, the command on ALL is with GND; if open, with +12V.
<b>Time</b>	Determines to which COM LED terminal condition the system deactivated status corresponds. If open, the deactivated condition corresponds to detected voltage on the terminal. If closed, the deactivated condition corresponds to a lack of voltage on the terminal.
<b>PLED</b>	If closed, the command on LED is with GND; if open, with +12V.
<b>BIT</b>	Determines alarm memory exclusion. If open, the alarm memory is excluded; if closed, the alarm memory is present.
<b>M3</b>	Connector used to connect the anti-foam device required to protect the siren from all attempts to mask/tamper with the sound system (if not used, leave the terminals jumpered).
<b>P1</b>	Connector for LED card (already connected).
<b>AP</b>	Sound diffuser connection terminal (already connected).
<b>BATT.</b>	Pre-wired cables for backup battery connection.

ALARM GENERATION SETTINGS	
ALL PALL 	DEVICE MISSING ALARM
ALL PALL 	NEGATIVE PRESENT ALARM
ALL PALL 	POSITIVE PRESENT ALARM
ALL PALL 	NEGATIVE MISSING ALARM

IMPOSTAZIONI INDICAZIONE STATO IMPIANTO	
LED PLED 	POSITIVE WITH SYSTEM OFF
LED PLED 	NEGATIVE MISSING WITH SYSTEM OFF
LED PLED 	POSITIVE WITH SYSTEM ON
LED PLED 	NEGATIVE PRESENT WITH SYSTEM OFF

## STARTUP

The first time the device is powered up, the LEDs inside the flashing light come on steadily for 2s, then the siren emits a steady tone at full volume for approximately half a second, and finally all the LEDs turn off, confirming fully functional operation. At this point the system status LED flashes rapidly, indicating operation in TEST mode.

## TEST MODE

If a positive is applied to the "ENG. TEST" terminal, TEST mode is activated: alarm reception is blocked to make assistance easier, and the alarm memory on the flashing light is reset. TEST mode is indicated by the rapid flashing of the system status LEDs. TEST mode is activated for approximately 10s every time the system is switched off, a situation detected by the "COM LED" terminal, which allows the alarm memory to be reset automatically.

**N.B. the TEST ends approximately 10s after the command at the "ENG. TEST" terminal has been removed.**

## QUICK TEST

Simply connect a battery to the siren: the flashing light and system LED come on for approximately 2s, then the diffuser emits a steady note at full power for approximately half a second; this procedure allows all powered parts of the siren to be checked (from the battery to the diffuser).

## SELF-PROTECTION

The housing is protected from opening and removal by means of two tamper switches: the series of the aforementioned contacts is available at the "TAMPER" terminals.

## ALARM EVENT MEMORY

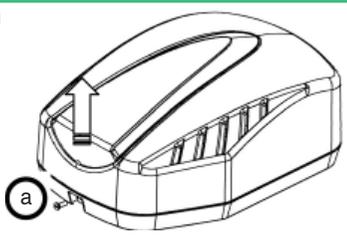
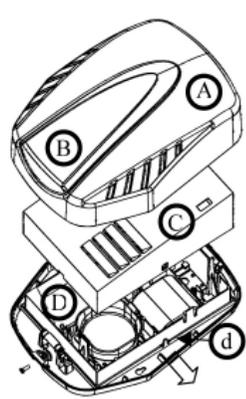
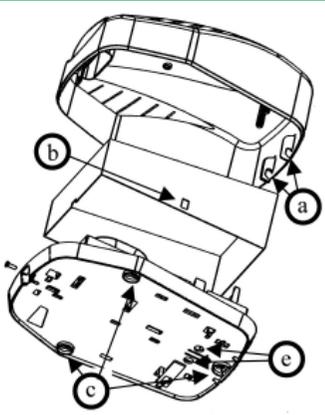
The flashing light is activated for the entire duration of the alarm and continues until:

- 1) the system is deactivated
- 2) or a TEST signal is applied

**N.B. the alarm memory can be excluded using the "BIT" jumper**

## SYSTEM STATUS INDICATION

An LED functioning as a system indicator is housed inside the same casing as the flashing light. In addition to indicating TEST mode, during normal operation it indicates activation status by flashing slowly. This indication can be controlled from the "COM LED" input and can be configured by means of the "PLED" and "LED" jumpers.

ASSEMBLY	
ACTION	DESCRIPTION
<p>Loosen the single screw (figure 1a) and lift the bottom part of the cover, allowing the rear teeth to become unhooked (figure 3a).</p>	<p>figure 1</p> 
<p>Remove the metal compartment by pressing the hooks on the base outwards (figure 2d). Fasten the base (figure 2D) to the wall, using the fixing slots provided (figure 3c).</p>	<p>figure 2</p>  <p>A - Cover B - Flashing light C - Cover D - Base</p>
<p>Use the holes in the base (figure 3e) to route the cables.</p>	<p>figure 3</p> 
<p>Perform electrical connection while the power supply is disconnected.</p>	<p>Connect the earth wire, the alarm and recharging cables, and the system status and TEST wires.</p>