

An inviolable structure

Cover available in either UV-resistant antistatic ASA with white or gray metallic finishing, or in varnished or chrome-plated aluminum

Easy installation and maintenance thanks to modular assembly and quick connector plugs



Internal protection grid and electronic anti-drilling protection (SAEL 2010PRO LED only)

Low consumption LED flashlight

Cable input protected by gasket to avoid water entry



White



Gray metallic



Chrome-plated aluminum

Technical features and functions

Horn	Sound level (on the main axis)	103dB(A) @ 1m 100dB(A) @ 3m
	Operating frequency	Programmable
	Sound type	Programmable
	Flashlight	LED
Flashlight	Color	Orange
	Flash rate	50/min.
	Anti-tamper protection	Anti-opening/Anti-detachment Antifoam Anti-drilling
Inputs Outputs	Stand-by input	✓
	Light input	✓
	Failure output	✓
Programmable functions	Arming/disarming signal	✓
	System status signal	✓
	Sound level attenuation	✓
	Post-alarm flashing	✓
Self test	Operating voltage	✓
	Battery recharge voltage	✓
	Horn	✓
	Flashlight	✓
Electrical specifications	Operating voltage	10.5V...14.5V DC
	Rated voltage	12V DC
	Stand-by consumption	12mA
	Max. Alarm consumption	1.8A
	LED signaling consumption	70mA
	Battery recharge limiter	✓
Physical specifications	Operating temperature	-40°C...+50°C
	Environmental class	IIIA
	Protection class	IP43-IPK08
	Security grade SAEL 2010 LED	3
	Security grade SAEL 2010PRO LED	4
	Casing	ASA/Al
	Weight (SAEL 2010 LED)	ASA 2kg - Al 2.7kg
	Weight (SAEL 2010PRO LED)	Al 3.1kg
Conformity	Dimensions (L x H x D)	211 x 315 x 98mm
	Battery	1x 12V/2.1Ah
Standard	EN 50131-4	

AVAILABLE MODELS

MODEL	ITEM NO.	Grade	EN 50131-4	PROTECTION	PROTECTION	COLOR BOX	ASA BOX	ALUMINUM BOX
SAEL 2010 LED	F105SAEL2010LGR	Grade 3		✓		Gray metallic	✓	
SAEL 2010 LED	F105SAEL2010LBI	Grade 3		✓		White	✓	
SAEL 2010 LED	F105SAEL2010LAL	Grade 3		✓		Gray metallic		✓
SAEL 2010 LED	F105SAEL2010LCR	Grade 3		✓		Chrome-plated		✓
SAEL 2010PRO LED	F105S2010PROL	Grade 4	✓	✓		Gray metallic		✓

The product features can be subject to change without notice.

SAEL 2010 LED SAEL 2010PRO LED

Outdoor sirens



The SAEL 2010 LED and SAEL 2010PRO LED sirens are among the top of the outdoor siren sector. The sirens have been designed to meet the most demanding security requirements, in compliance with the European standards. The elegant and functional *pininfarina* design allows a perfect blending with any architectural framework.



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Tecnalarm
Hi-Tech Security Systems

SAEL 2010 LED - SAEL 2010PRO LED - Outdoor sirens

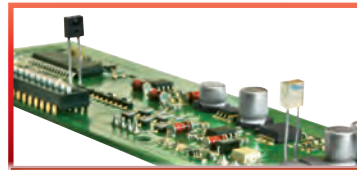
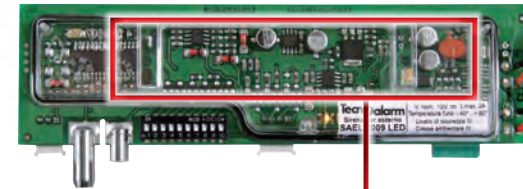
With the new range of outdoor sirens, Tecnoalarm redefines the concepts of security, reliability, performance and energy consumption of the sirens.

- **High security**
Sophisticated anti-tamper protections are able to dissuade any kind of sabotage.
- **Complete reliability**
A comprehensive self-test function ensures the maintenance of functional efficiency.
- **Good interaction**
Diversified flashlight signaling provides dynamic information on the system status.
- **Low consumption**
Thanks to a new generation LED flashlight energy consumption has been significantly reduced.



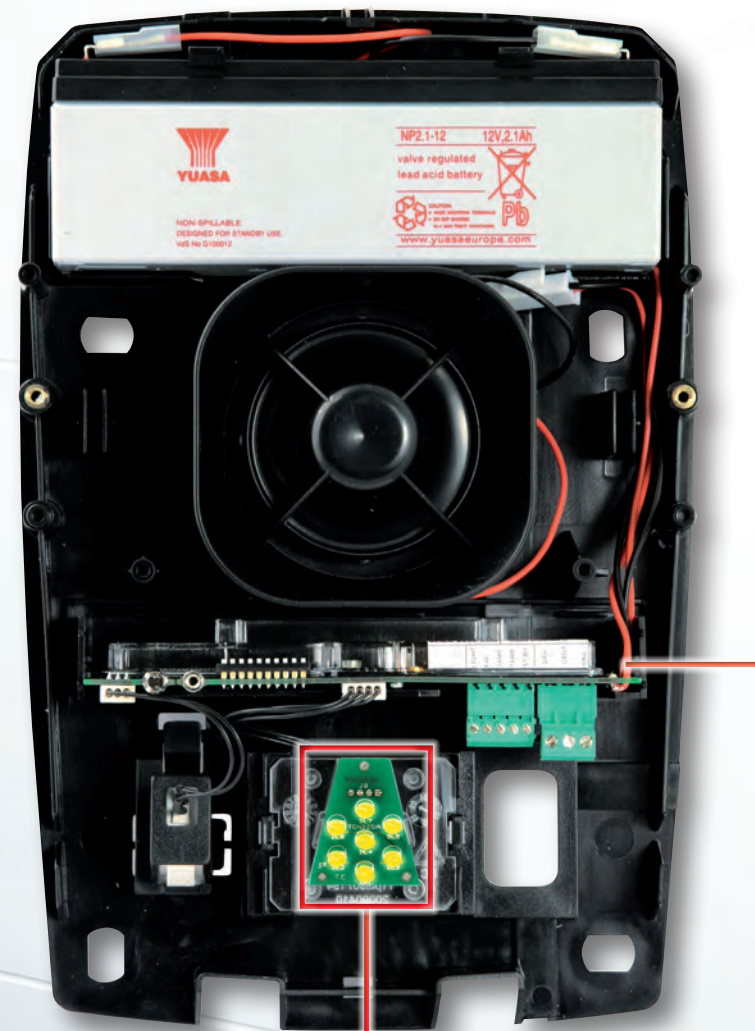
Electronic board

The electronic board is built with SMT technology. It provides a series of dip-switches for the settings of the sirens. The electronic components are protected by a watertight internal plastic cover. In order to facilitate installation and maintenance, the connection between the siren and the control panel is made through removable terminal block connectors. The horn, the tamper switch and the flashlight board are connected to the electronic board using quick connector plugs.



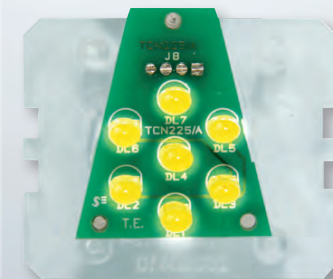
Antifoam protection

The sirens are equipped with an optical antifoam protection which is composed of an infrared LED transmitter and the corresponding receiver.



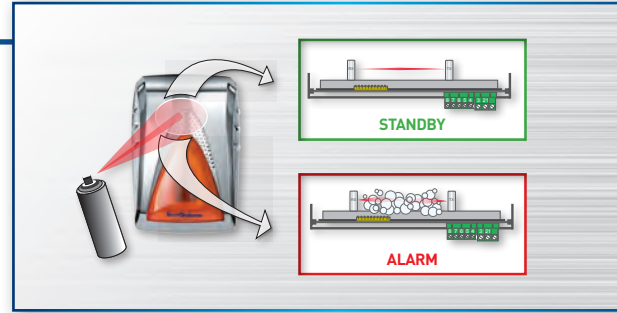
LED technology

LED technology offers a series of advantages. In the first place, the high light efficiency reduces significantly the consumption of the sirens. The high switching speed permits the creation of extremely dynamic light effects. In conclusion, by virtue of their resistance to moisture and vibrations and their capacity of bearing an extremely great number of on/off switching, the LED guarantee longevity of the flashlight.



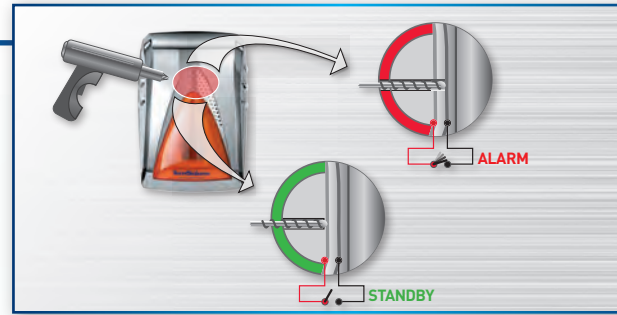
Antifoam protection

The highly sensitive antifoam device detects even small quantities of foam, so that the tamper signal is activated long before the internal space of the siren is completely foamed and sounding is smothered. The antifoam protection is always active. The alarm causes the activation of the tamper output of the siren.



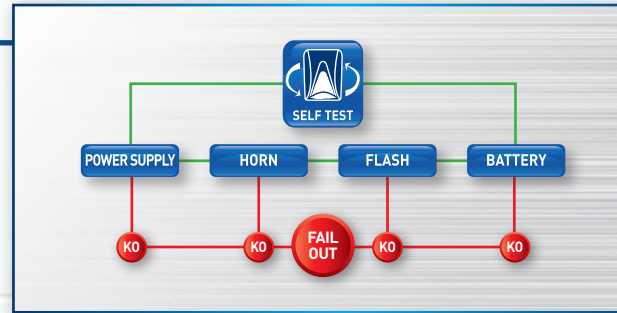
Anti-drilling protection

The anti-drilling protection is composed of an anti-drilling contact and an internal metal grid which are electrically connected to the cover of the casing on one side and to an electronic circuit on the other. Any drilling attempt will cause a short circuit and release a tamper alarm. The anti-drilling protection is always active. The alarm causes the activation of the tamper output of the siren. The anti-drilling protection is only provided for the SAEL 2010PRO LED sirens.



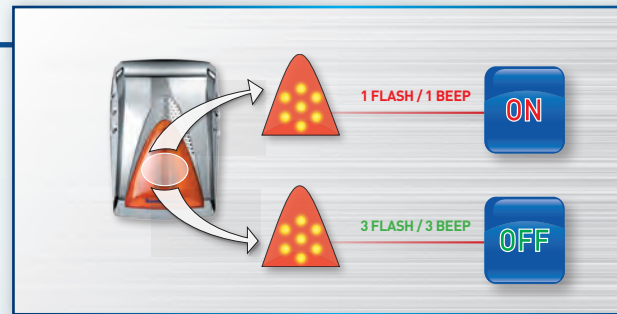
Self test

The sirens are equipped with an automatic test function which periodically verifies the functional efficiency of the flashlight, the horn and the battery and checks the battery recharge voltage. Failure is signaled by the flashlight and the failure output. Continuous self test cycles ensure that functional efficiency is maintained over the years.



Arming/disarming signal

The sirens can be set so as to signal arming and disarming of the system either optically or optically and acoustically. According to programming, the sirens emit 1 sound signal and/or 1 flashing upon arming and 3 sound signals and/or 3 flashings upon disarming of the control panel. The function is especially useful in case of arming by wireless key, as in this way the user has a reliable feedback of the executed command.



System status signal

The arming status of the control panel is signaled by a special flashlight signal. The LED of the flashlight are rotating as long as the control panel is armed. The signaling is useful if the arming status of the system must be put in evidence. System status signaling can be excluded.

