

# Sael 2010 LED - PRO 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 satisfy the most sophisticated security requirements, in compliance with the valid European standards. The elegant and functional *pininfarina* design allows a perfect blending with any architectural framework.

**TecnAlarm**  
Hi-Tech Security Systems  
design by *pininfarina*

# **Sael 2010 LED - PRO 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: an extensive self-test function ensures the maintenance of functional efficiency
- Good interaction: diversified flashlight signaling provides dynamic information on the sirens' functional status
- Low consumption: thanks to a new generation LED flashlight energy consumption has been significantly reduced



# An inviolable structure

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



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

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



Chrome-plated aluminum



Gray metallic



White

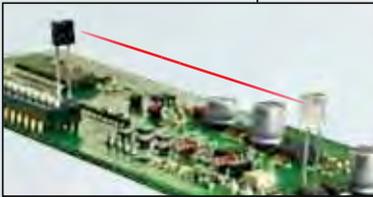


## Electronic board

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.



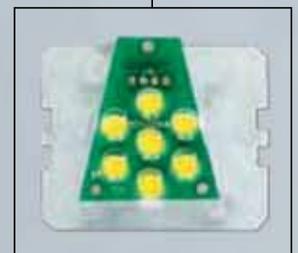
## Antifoam protection

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



## LED technology

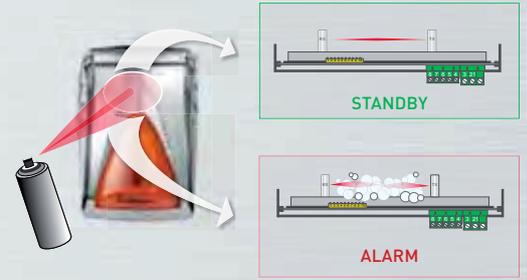
LED technology offers a series of advantages. In the first place, the high light efficiency reduces significantly the consumption of the sirens. The high switching speed permits the creation of extremely dynamic light effects. In conclusion, by virtue of their resistance to moisture and vibrations and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





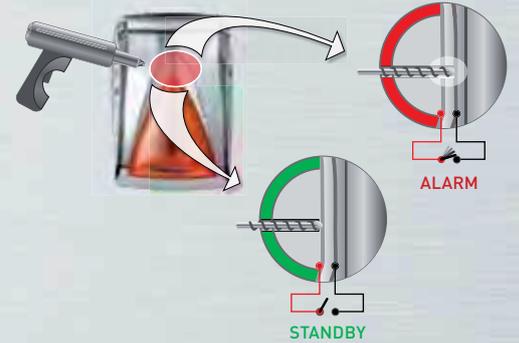
## Antifoam protection

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.



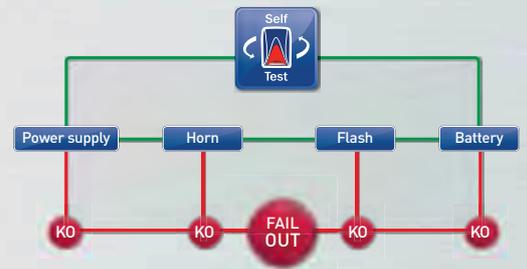
## Anti-drilling protection

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.



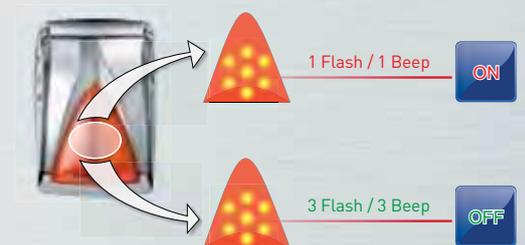
## Self Test

The sirens are equipped with an automatic self-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 through specific flashlight signals and the activation of the failure output. Continuous self-test cycles ensure that functional efficiency is maintained over the years.



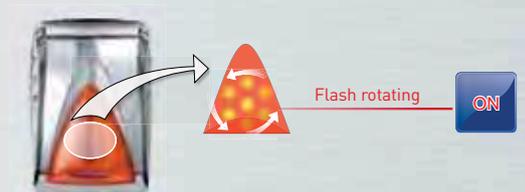
## Arming/disarming signaling

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 flash upon arming and 3 sound signals and/or 3 flashes 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 an unambiguous feedback of the executed command.



## System status signaling

The arming status of the control panel is signaled by a special flashlight signal. The LED of the flashlight are activated by rotation 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.



MODEL	CASING	COLOR	WEIGHT (without battery)	ANTIFOAM	ANTIDRILLING	SECURITY GRADE	CODE
SAEL 2010 LED	ABS	Gray metallic	2kg	✓		3 (EN50131-1)	F105SAEL2010LGR
SAEL 2010 LED	ABS	White	2kg	✓		3 (EN50131-1)	F105SAEL2010LBI
SAEL 2010 LED	Aluminum	Gray metallic	2.7kg	✓		3 (EN50131-1)	F105SAEL2010LAL
SAEL 2010 LED	Aluminum	Chrome-plated	2.7kg	✓		3 (EN50131-1)	F105SAEL2010LCR
SAEL 2010PRO LED	Aluminum	Gray metallic	3.1kg	✓	✓	4 (EN50131-1)	F105S2010PROL

## TECHNICAL FEATURES AND FUNCTIONS

## SAEL 2010 LED - SAEL 2010PRO LED

HORN	Sound level	>103dB(A) @ 1m (on the main axis) ... >100dB(A) @ 3m (on the main axis)
	Frequency range	Programmable (4 settings)
	Max. sounding time	Programmable (4 settings)
	Sound type	Programmable (2 settings)
	Alarm cycles	Programmable (2 settings)
	Sound level attenuation	By dipswitch
	Arming/disarming signal	Sound signal for arming and disarming (excludible)
FLASHLIGHT	Flashlight	LED
	Color	Orange
	Flash rate	50/min.
	Post-alarm flashing	Programmable (2 settings)
	Arming/disarming signal	Flashlight signal for arming and disarming (status change)
	Arming status signal	Flashlight signal for armed control panel (excludible)
	Fault signal	Individual flashlight signal for horn, flashlight or battery fault
ANTI-TAMPER PROTECTION	Anti-opening protection	✓
	Anti-detachment protection	✓
	Antifoam protection	✓
	Anti-drilling protection	SAEL 2010PRO LED only
INPUTS AND FUNCTIONS	Alarm input	+12V DC siren control input
	Stand-by input	Stand-by and siren cut-off input (programmable polarity)
	Light input	Input for inhibition of LED signaling for armed control panel
	Battery recharge input	+14V DC battery recharge input
	Self-test function	Automatic battery, horn and flashlight check
OUTPUTS	Tamper output	NC tamper output
	Failure output	+12V DC failure output
POWER SUPPLY	Operating voltage	10.5V...14.5V DC
	Rated voltage	12V DC
	Battery recharge voltage	14,4V
	Battery	1x 12V/2.1Ah
CONSUMPTION	Stand-by consumption	22mA (medium)
	Alarm consumption (flashlight + siren)	1.8A (medium)
	LED signaling consumption	80mA (medium)
PHYSICAL CHARACTERISTICS	Operating temperature	-40°C...+60°C
	Classification	Protection class IP43-IK08 – Environmental class III (EN50131-4)
	Dimensions (L x H x D)	211 x 315 x 98mm

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