

1. GENERAL

The SP-4001 outdoor siren is designed for application in burglary and panic alarm systems, as well as in fire alarm systems. The signaling function is performed in two ways: **optically** (by red lamp blinking) and **acoustically** (with a modulated high-volume sound signal). The source of light is a 5W/12V incandescent lamp, while the sound signal is generated by means of a piezoelectric transducer. Design of the siren housing ensures a high degree of tamper protection (against opening and/or pull-off from the mounting surface). Electronic circuit of the siren is made in SMD technology and impregnated against adverse effect of weather conditions, which ensures a high reliability of the equipment. As the outer shell of the SP-4001 is made of PC LEXAN high-impact polycarbonate, it features a very high mechanical strength and guarantees esthetic look of the equipment even after many years of service. The inner cover made from galvanized sheet provides extra protection of the electronics against mechanical damage.

2. INSTALLATION

The SP-4001 siren should be mounted on flat surface, at a place as much inaccessible as possible so that the risk of tampering is minimized. The siren must be attached to the surface by means of screws and expansion plugs. In order to take off the cover, remove the two retaining screws and lift it by an angle of approx. 60°. Be particularly careful when dismantling and remounting the inner sheet metal cover.

NOTE: Make sure there is a suitable distance (minimum 2.5 cm) between the upper edge of the siren base and the ceiling or another element restricting the mounting position from the above. Otherwise, replacement of the cover may be impossible.

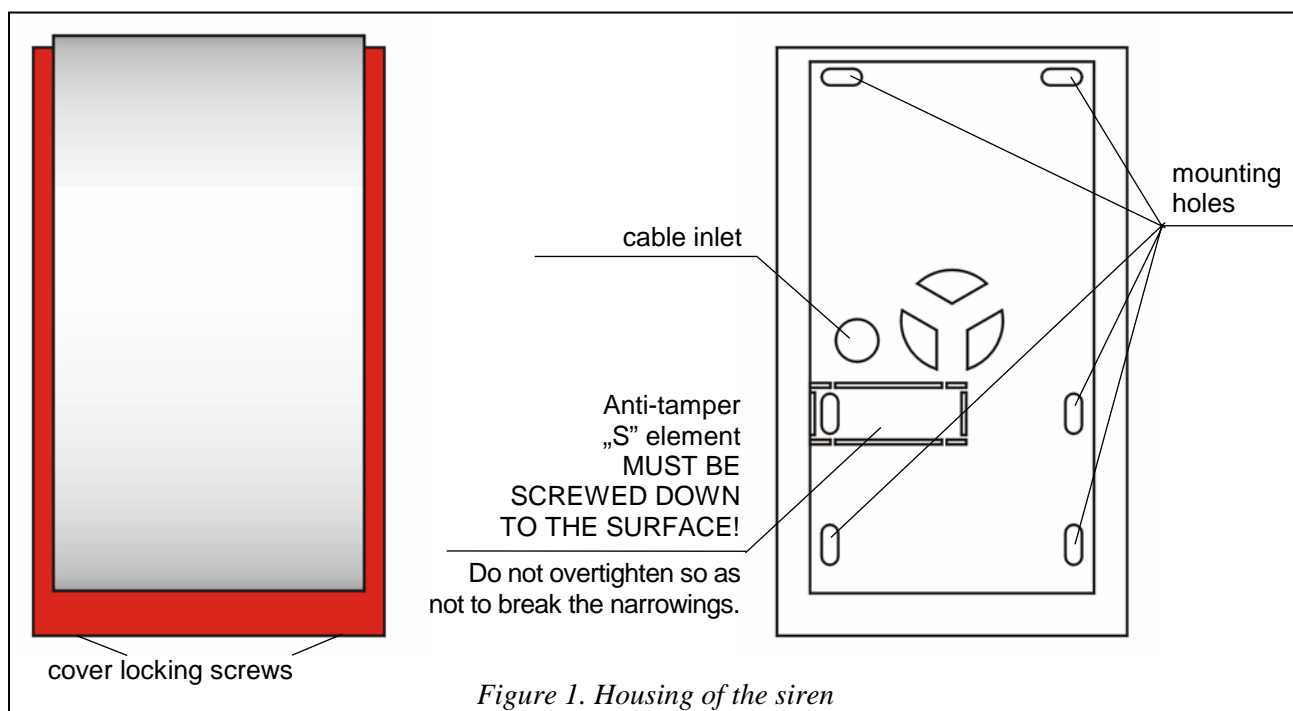


Figure 1. Housing of the siren

After installation of the siren, it is recommended that the mounting holes as well as the cable inlet be sealed by means of silicone compound.

3. CONNECTION

The SP-4001 siren can work with any alarm signal source where in the event of alarm condition 12V direct voltage appears on the signaling output(s). Acoustic signaling is triggered with 12V power supply connected to the "+ SA -" terminals, and optical signaling - with power connected to the "+ SO -" terminals. It should be borne in mind that the current capacity of the control panel alarm and/or power outputs must ensure proper operation of the siren.

The siren tamper circuit is a safeguard against removal and detachment from the wall of the outer housing. For the pull-off protection to function properly, the "S" element (Fig. 1) must be screwed down to the mounting surface.

The "TMP" terminals are used to connect the siren to the security system tamper circuit, while the **SENS.TMP** terminals are provided for connecting the inner sensor for tamper protection of the housing against opening and/or pull-off.

The **JP1+JP5** jumpers are intended for selection of the siren audible signal (Fig. 2).

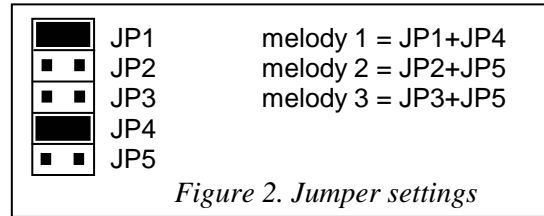


Figure 2. Jumper settings

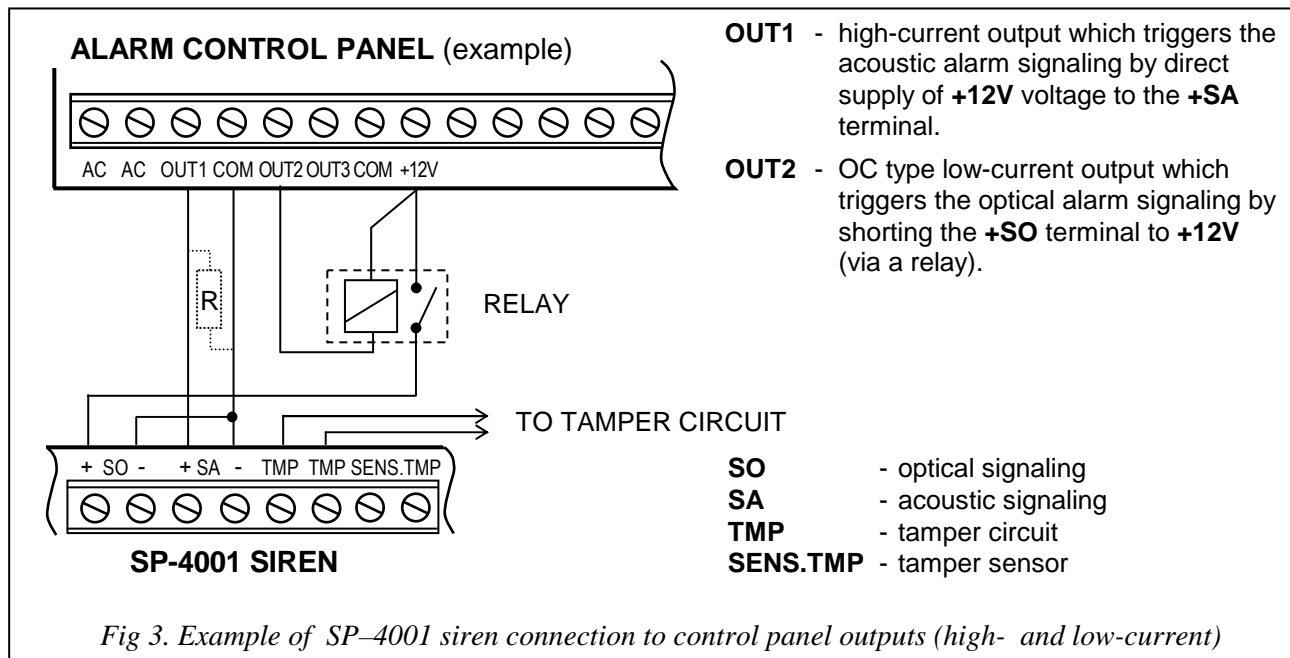


Fig 3. Example of SP-4001 siren connection to control panel outputs (high- and low-current)

Both types of signaling can be managed from one control panel output if the contacts are connected in parallel i.e. „+SA” with „+SO” and „-SA” with „-SO”.

Some control panels may require that a resistance **R** (approx. 1kΩ) be connected in the siren. Otherwise, the siren will be gently buzzing when switched off.

4. TECHNICAL DATA:

Supply voltage	12V DC ±15%
Current consumption - acoustic signaling	200mA
Average/max. current consumption - optical signaling	350/500mA
Average current consumption (SA, SO inputs connected in parallel).....	550mA
Sound intensity	approx. 120dB
Working temperature.....	-35°C...+55°C
Dimensions	148x254x64mm

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