

The SP-4003 optical-acoustic outdoor siren comes in three versions differing by the color of optical signaling (red in SP-4003 R, blue in SP-4003 BL and orange in SP-4003 O).

1. Features

- Acoustic signaling by means of piezoelectric transducer.
- Optical signaling by means of two sets of LEDs.
- Three selectable tones for acoustic signaling.
- Weatherproofed electronic circuit.
- Tamper protection in 2 ways – cover opening or tearing housing from the wall.
- Inner cover of galvanized metal sheet.
- Housing made of PC LEXAN high-impact polycarbonate, featuring a very high mechanical strength.

Explanations for Figure:

- 1 - housing cover.
- 2 - inner cover of galvanized metal sheet.
- 3 - housing base.
- 4 - piezoelectric transducer.
- 5 - tamper contact (NC).
- 6 - electronics board.
- 7 - housing cover locking screws.

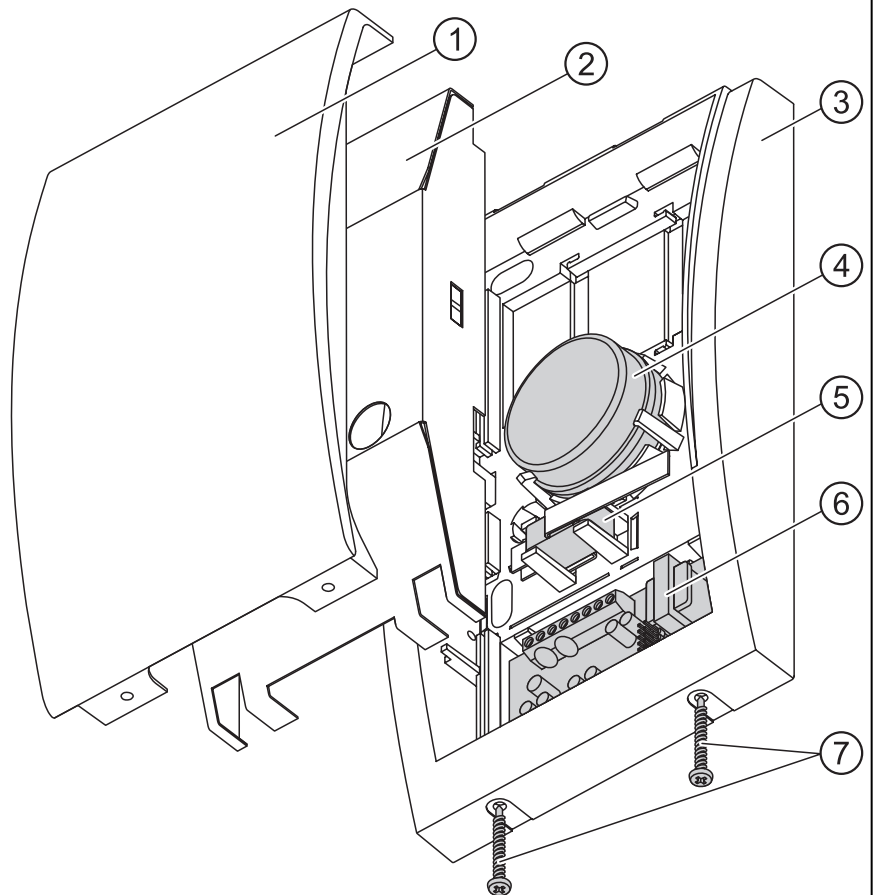


Fig. 1. View of the siren.

2. Description of electronics board

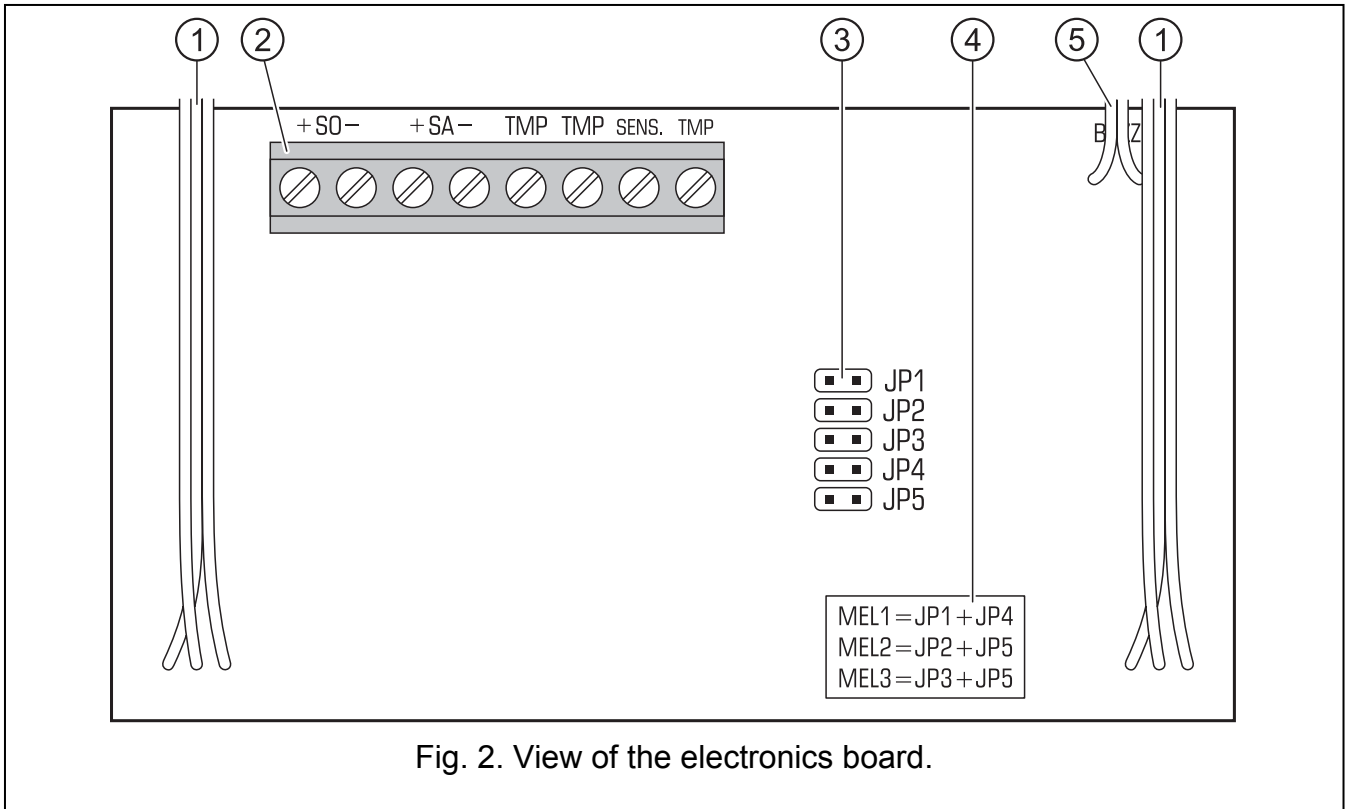


Fig. 2. View of the electronics board.

Explanations for Fig. 2:

1 - wires to LED sets.

2 - terminals:

+SO- - optical signaling control.

+SA- - acoustic signaling control.

TMP and TMP - tamper circuit.

SENS. and TMP - siren tamper contact.

3 - pins for tone selection.

4 - description of setting jumpers for respective acoustic signals.

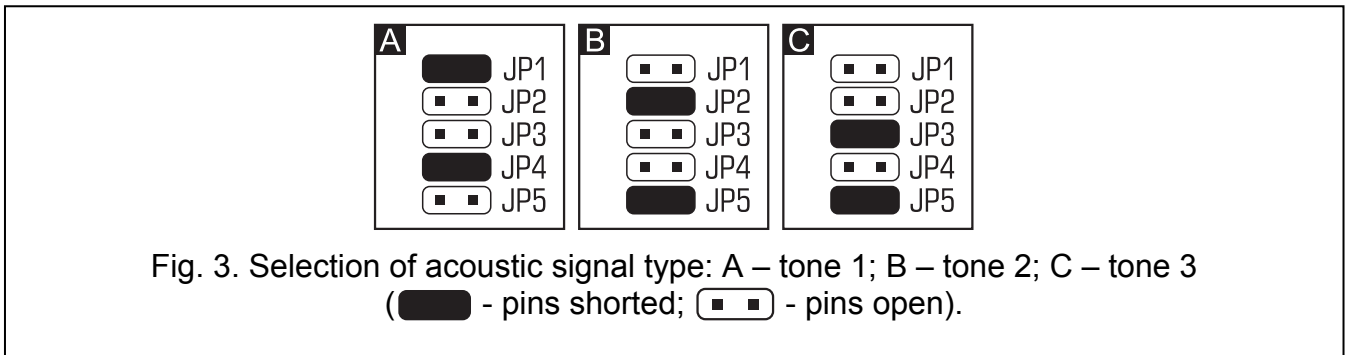


Fig. 3. Selection of acoustic signal type: A – tone 1; B – tone 2; C – tone 3
(**■** - pins shorted; **□** - pins open).

5 - wires to piezoelectric transducer.

3. Installation

In order to take off the cover, remove the two locking screws and lift it by an angle of approx. 60°. Install the siren on flat surface, in a hard-to-reach place, so as to minimize the risk of tampering.

Note: Leave a distance of at least 2.5 cm between the upper edge of the siren housing and the ceiling or another object located above the siren. Otherwise, replacement of the cover may be impossible.

The siren should be secured to the mounting surface by means of screws and screw anchors. Be careful when screwing down the tamper element to which the tamper contact is fastened, so as not to break the narrowings.

4. Connection



All electric connections may only be made with power supply disconnected.

The SP-4003 siren can work in conjunction with any device at the output(s) of which +12V DC voltage will appear in emergency. The signal is triggered after +12 V voltage is applied to the corresponding terminals of the siren (**SA** for acoustic signaling, **SO** for optical signaling). Make sure that the output current rating of the signaling control outputs is sufficient and will guarantee correct operation of the device.

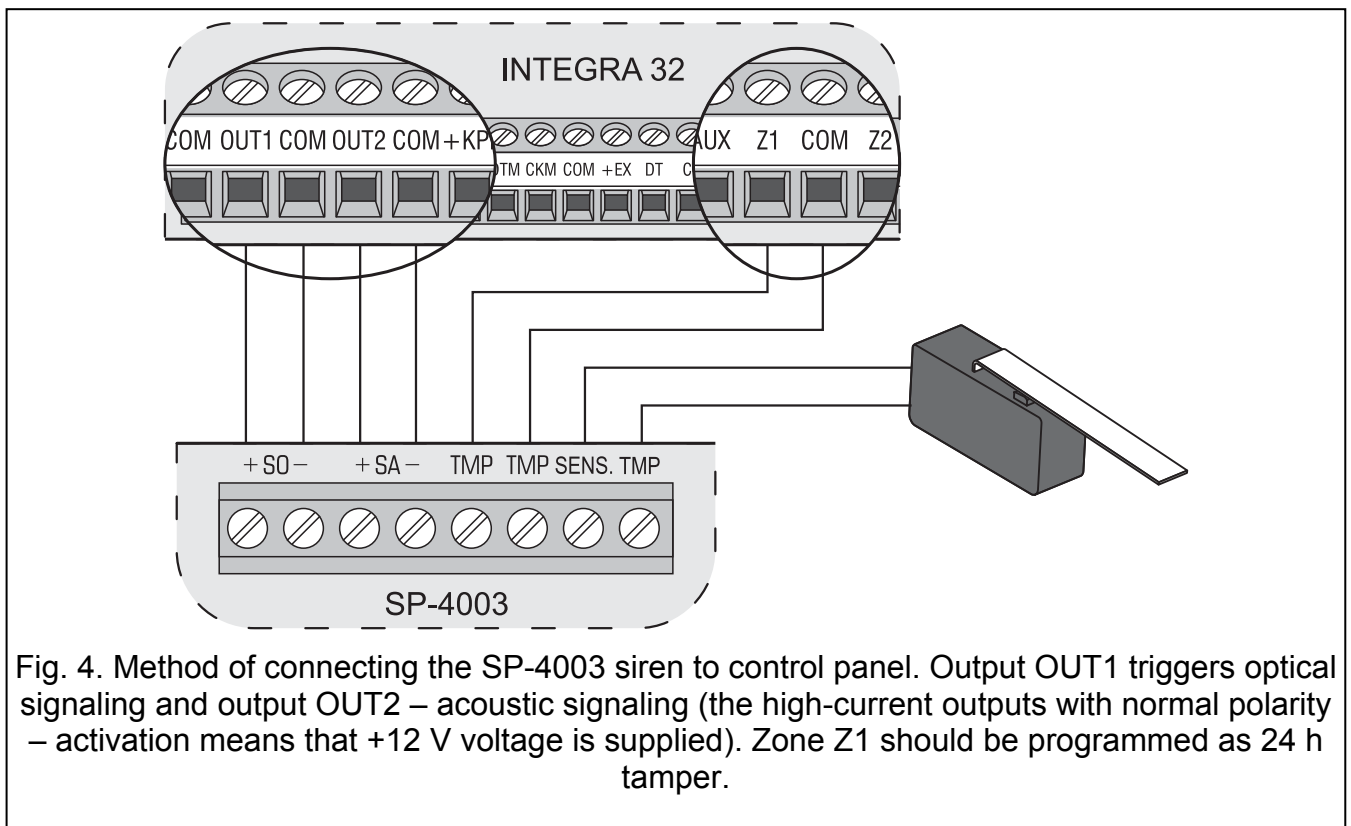


Fig. 4. Method of connecting the SP-4003 siren to control panel. Output OUT1 triggers optical signaling and output OUT2 – acoustic signaling (the high-current outputs with normal polarity – activation means that +12 V voltage is supplied). Zone Z1 should be programmed as 24 h tamper.

5. Specifications

Power supply	12 V DC \pm 15%
Maximum current consumption:	
optical signaling	250 mA
acoustic signaling.....	270 mA
optical and acoustic signaling	520 mA
Sound pressure level (at 1 m distance).....	up to 120 dB
Environmental class according to EN50130-5	III
Operating temperature range.....	-35...+55 °C
Maximum humidity	93 \pm 3%
Housing dimensions.....	148 x 254 x 64 mm
Weight.....	894 g

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