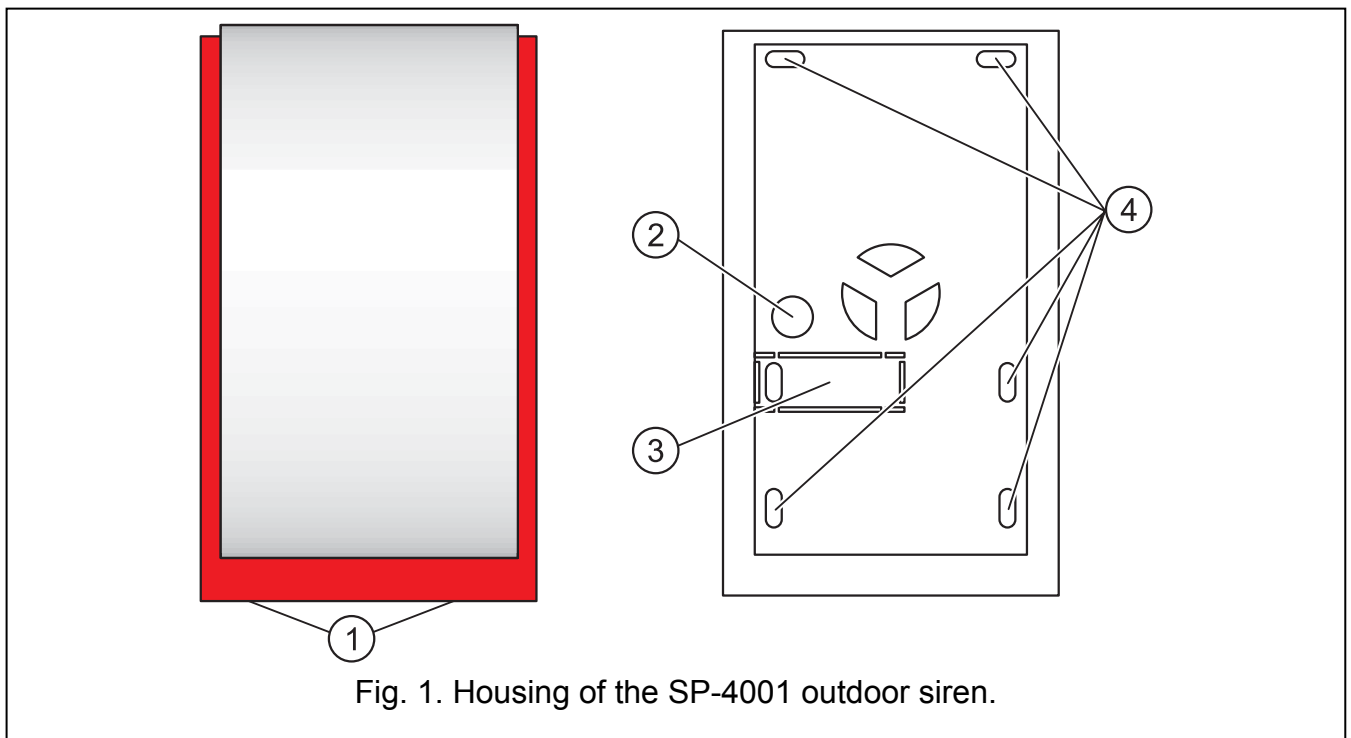


The SP-4001 optical-acoustic outdoor siren is designed for intruder alarm systems.

1. Features

- Acoustic signaling: piezoelectric transducer.
- Optical signaling: LEDs.
- 3 selectable tones.
- Weatherproofed electronic circuit.
- Tamper protection in 2 ways – cover opening or tearing housing from the wall.
- Internal metal cover.
- Housing made of PC LEXAN high-impact polycarbonate, featuring a very high mechanical strength.

2. Installation



Explanations for Figure 1:

- 1 - cover retaining screws.
- 2 - cable entry hole.
- 3 - tamper element of the housing (should be screwed to the mounting surface; do not apply excessive force, so as not to break the narrowings).
- 4 - mounting holes.

The SP-4001 outdoor siren should be mounted on a flat surface, at a place which is as hard to access as possible, so as to minimize the risk of tampering. The device must be attached

to the surface by means of screws and expansion plugs. In order to take off the cover, remove the two locking 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 housing and the ceiling or another element which restricts the mounting position from the above. Otherwise, replacement of the cover may be impossible.

After installation of the outdoor siren mounting holes as well as the cable inlet should be sealed with silicone compound.

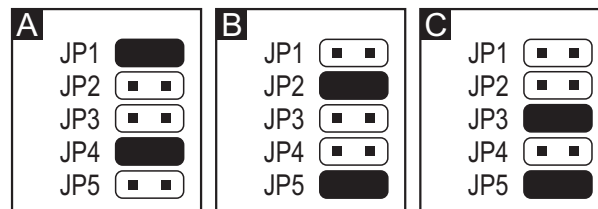




Fig. 2. Selection of acoustic signal type: A – tone 1; B – tone 2; C – tone 3
( - pins shorted;  - pins open).

3. Connection

The SP-4001 siren can work with any alarm signal source where in the event of alarm condition 12 V direct voltage appears on the signaling output(s). 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). It is possible to control two types of signaling from one control panel output when the terminals are connected in parallel: +SA with +SO and -SA with -SO.

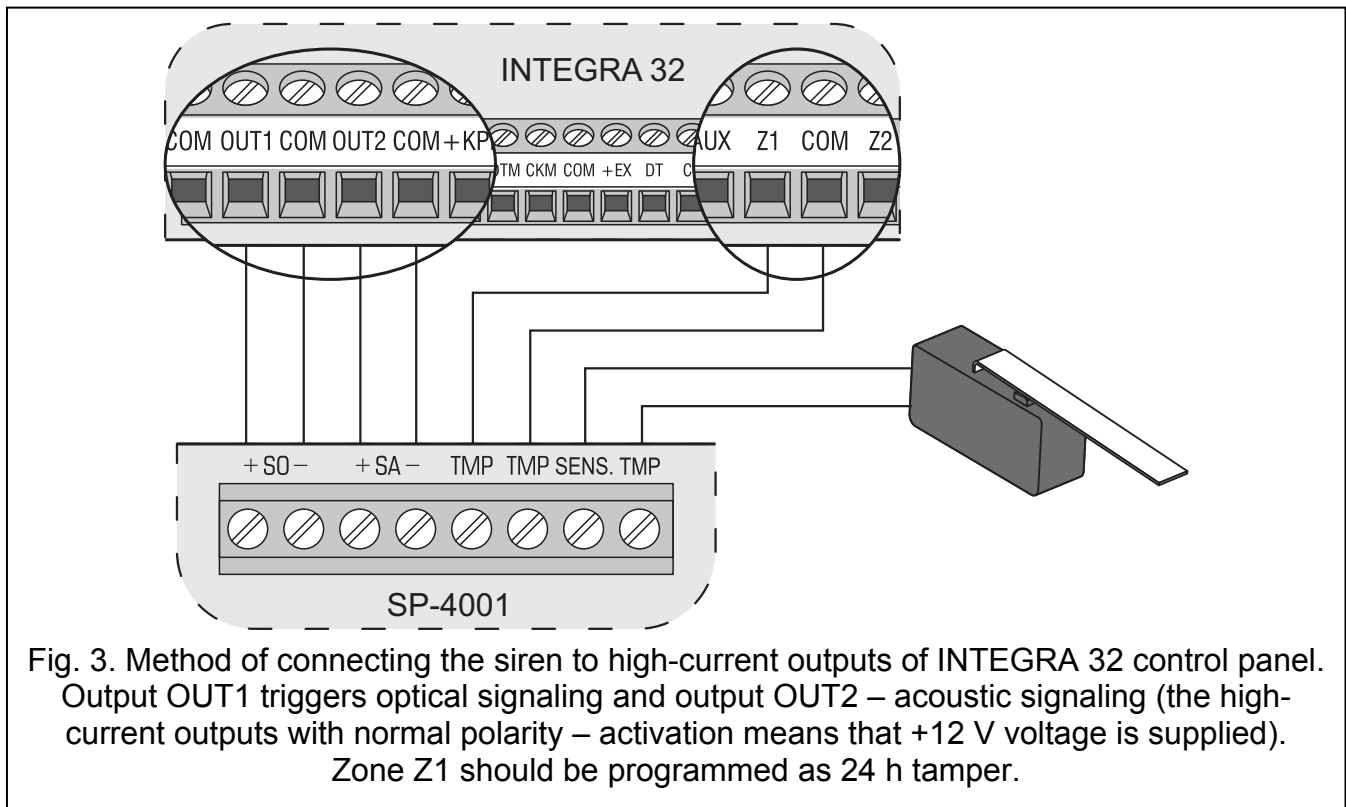


Fig. 3. Method of connecting the siren to high-current outputs of INTEGRA 32 control panel. Output OUT1 triggers optical signaling and output OUT2 – acoustic signaling (the high-current outputs with normal polarity – activation means that +12 V voltage is supplied). Zone Z1 should be programmed as 24 h tamper.

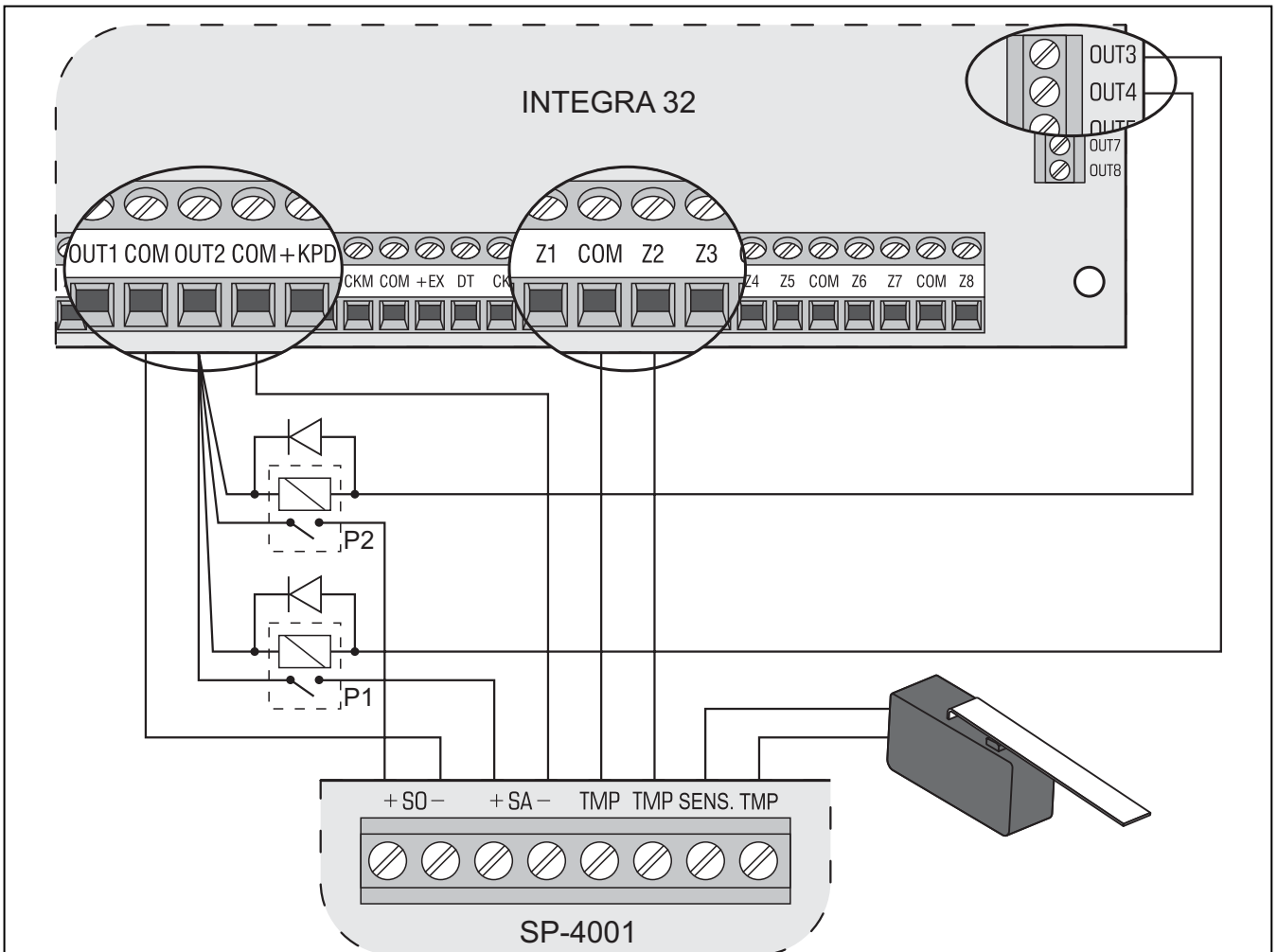


Fig. 4. Method of connecting the siren to low-current outputs of INTEGRA 32 control panel. Output OUT2 has been programmed as supply one. Output OUT3 controls the relay P1 which triggers acoustic signaling, and output OUT4 controls the relay P2 which triggers optical signaling (low-current outputs with normal polarity – activation means shorting to the ground). Zone Z2 should be programmed as 24 h tamper.

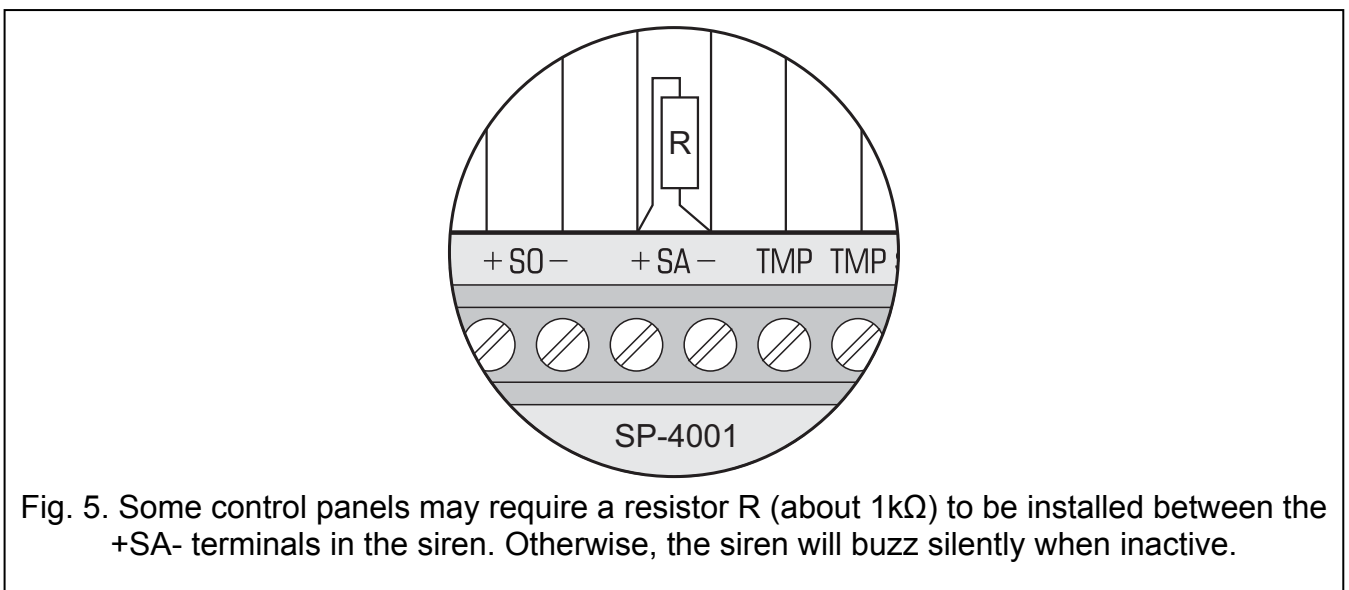


Fig. 5. Some control panels may require a resistor R (about 1kΩ) to be installed between the +SA- terminals in the siren. Otherwise, the siren will buzz silently when inactive.

4. Specification

Power supply	12 V DC \pm 20%
Maximum current consumption:	
optical signaling	40 mA
acoustic signaling.....	230 mA
optical and acoustic signaling	270 mA
Sound pressure level (at 1 m distance).....	up to 120 dB
Environmental class	III (EN50130-5)
Operating temperature range.....	-35...+55 °C
Housing dimensions.....	148 x 254 x 64 mm
Weight.....	805 g

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