



The MAGENTA detector enables detection of plate, tempered or laminated glass breaking. This manual applies to the detector with electronics version 1.1 (or newer).

1. Features

- Advanced two-path sound analysis.
- Adjustable detection sensitivity.
- Supply voltage supervision.
- LED indicator.
- Tamper protection against cover removal and tearing enclosure from the wall.

2. Description

Glass-break detection

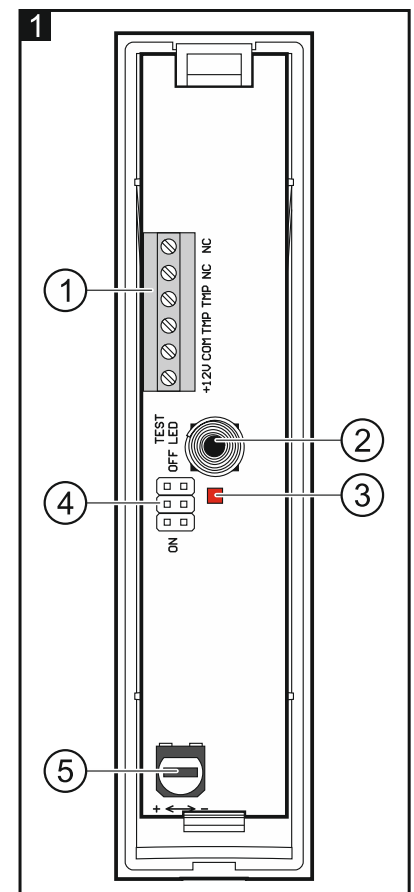
The detector will report an alarm when it detects a low frequency sound (impact) followed by a high frequency sound (glass break) in less than 4 seconds. The alarm is signaled by the alarm output for 2 seconds.

Supply voltage supervision

The detector will report a trouble when the supply voltage drops below 9 V ($\pm 5\%$) for more than 2 seconds. The trouble results in turning on the alarm output. The alarm output remains on as long as the trouble exists.

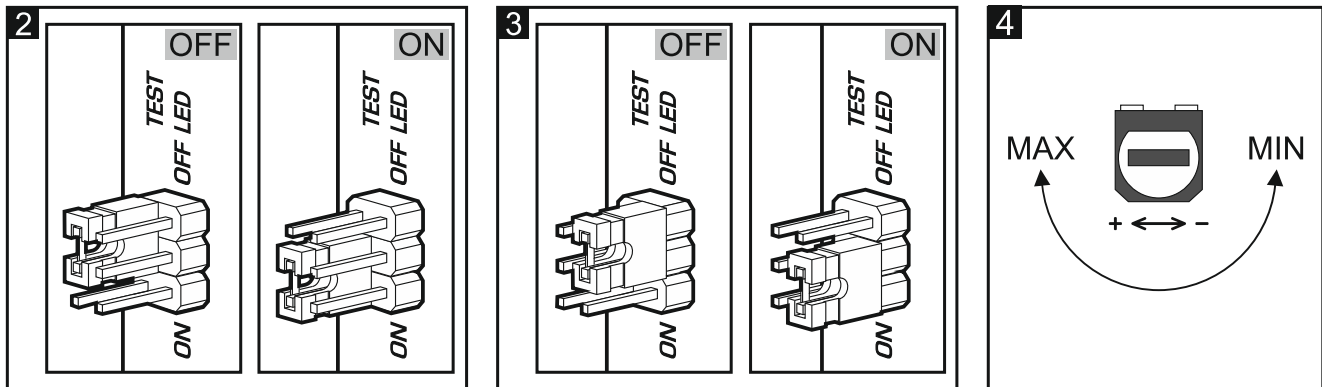
Electronics board

- terminal block:
 - +12V** - power input,
 - COM** - common ground,
 - TMP** - tamper output (NC),
 - NC** - alarm output (NC relay).
- tamper contact.
- red color LED to indicate:
 - detection of low-frequency sound – ON for 0.5 seconds,
 - alarm – ON for 2 seconds,
 - test mode – short flash every 3 seconds,
 - low supply voltage – ON.
- detector configuration pins:
 - TEST** – enabling/disabling the test mode. In the test mode, the detector reports an alarm when it detects a high frequency sound (glass break sound). The test mode is enabled when the jumper is set in ON position (Fig. 2).



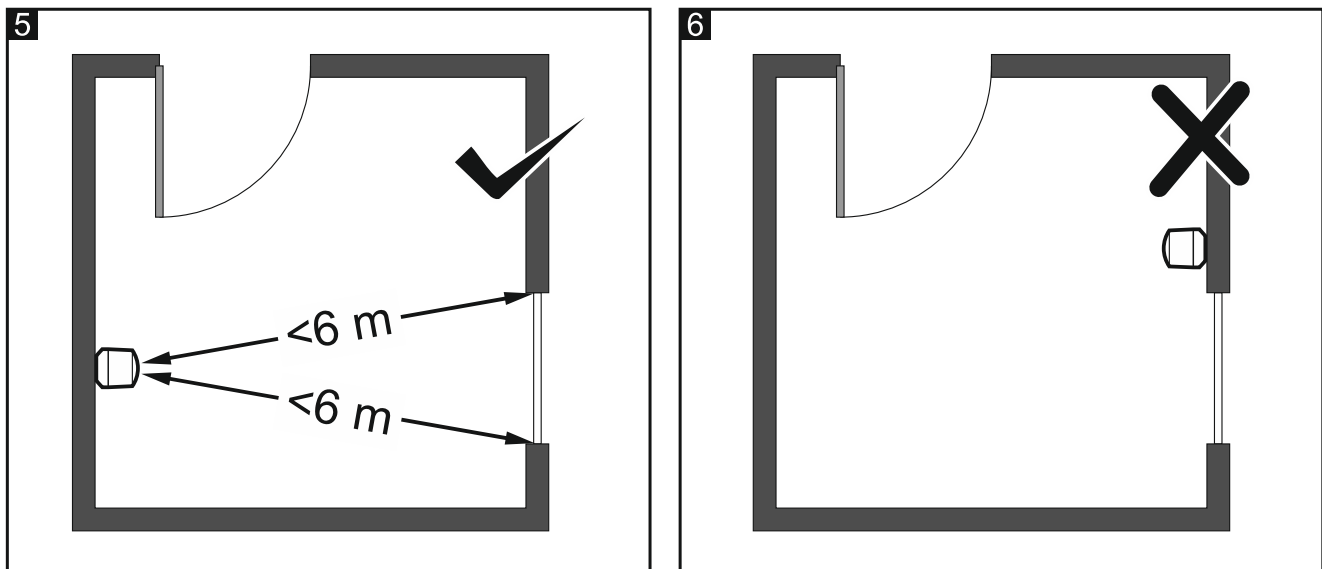
LED – enabling/disabling the LED indicator. The LED indicator is enabled when the jumper is set in ON position (Fig. 3).

- ⑤ potentiometer for the adjustment of detection sensitivity (Fig. 4).



3. Selecting a mounting location

- The detector is designed for indoor installation.
- The detector microphone should be directed towards the protected glass, so the best place to mount the detector is the wall opposite the protected glass.
- The distance between the detector and the protected glass must not exceed the detection range (6 m).
- There must be no objects between the detector and the glass.
- The detection range depends on the room acoustics. The shades, curtains, furniture upholstery, acoustic tiles, etc. absorb the sound and adversely affect the detector operating range.
- Do not mount the detector on the same wall as the protected glass.

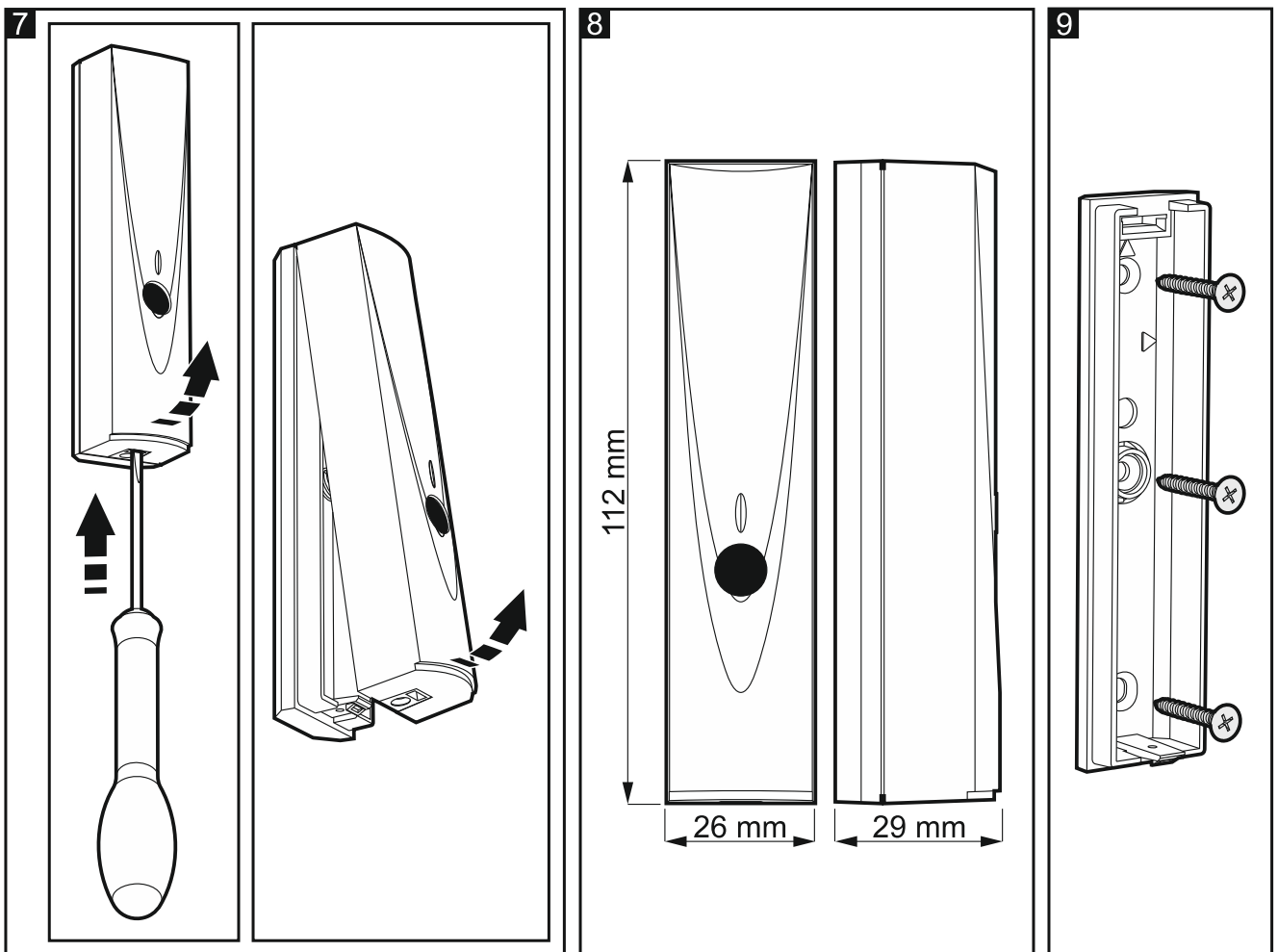


4. Range test

Check that the detector located in the selected installation location can detect the glass-break. A temporary 12 V DC power supply will be needed for the test.

1. Open the detector enclosure (Fig. 7).
2. Make an opening for the wires in the enclosure base.

3. Run wires through the prepared opening to a temporary 12 V DC power source.
4. Connect the power wires to the +12V and COM terminals.
5. Place the jumper on the TEST pins in the ON position (Fig. 2).
6. Close the detector enclosure.
7. Put the detector at the planned installation place.
8. Power up the detector.
9. Place the INDIGO TESTER close to the protected glass and use it to generate a glass-break sound.
10. If the detector reports an alarm, proceed to the next steps. If the detector fails to report an alarm, increase sensitivity or select another installation location and repeat the test.
11. Power down the detector.
12. Open the detector enclosure.
13. Disconnect the power wires.
14. Place the jumper on the TEST pins in the OFF position (Fig. 2).



5. Installation



Disconnect power before making any electrical connections.

1. Run wires through the opening prepared earlier.
2. Use screws to secure the enclosure base to the mounting surface (Fig. 9). Wall plugs (screw anchors) and screws are included in the detector delivery set.
3. Connect the wires to the corresponding terminals on the electronics board.

4. Configure the detector using jumpers and the potentiometer.
5. Close the detector enclosure.

6. Specifications

Supply voltage	12 V DC \pm 15%
Standby current consumption	5 mA
Maximum current consumption	10 mA
Relay contacts rated load (resistive)	40 mA / 16 V DC
Alarm signaling time.....	2 s
Detection range.....	up to 6 m
Environmental class according to EN50130-5	II
Operating temperature range.....	-10°C...+55°C
Maximum humidity	93 \pm 3%
Enclosure dimensions.....	26 x 112 x 29 mm
Weight.....	40 g

The declaration of conformity may be consulted at www.satel.eu/ce