

The FD-1 detector senses the presence of water leaks or flooding in rooms with plumbing. This manual applies to the detector with electronics version 1.4 (or newer).

1. Features

- External flood sensor.
- Supply voltage control.
- LED indicator.
- Tamper protection against cover removal and tearing enclosure from the wall.

2. Description

The alarm is triggered approximately 4 seconds after the water level reaches the height at which the flood sensor electrodes are installed. During the alarm condition the relay contacts are open and the LED is ON. The alarm ends a few seconds after the water level drops below the height at which the flood sensor electrodes are installed.

Supply voltage control

In the event of a prolonged voltage drop below 9 V ($\pm 5\%$), the detector will signal a trouble. The trouble is indicated by the activation of alarm relay and the steady light of LED indicator. The trouble signaling will continue as long as the trouble persists.

Electronics board

① terminals:

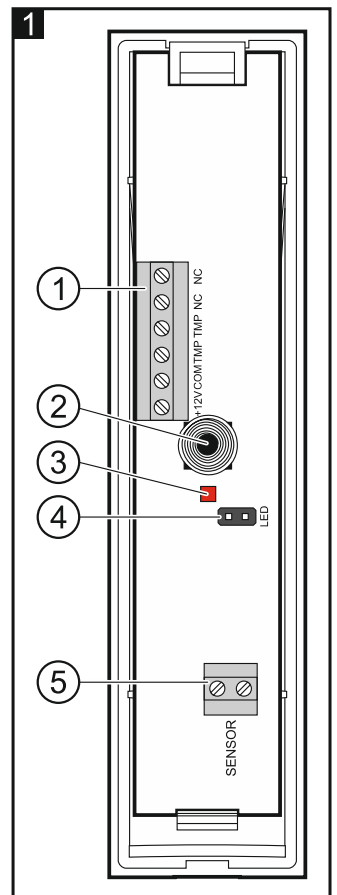
- +12V** - power input.
- COM** - common ground.
- TMP** - tamper output (NC).
- NC** - alarm output (NC relay).

② tamper contact.

③ LED indicating the relay status. It lights red when the relay is open.

④ pins for enabling/disabling the LED indicator. The LED indicator is enabled when jumper is placed on the pins.

⑤ terminals for the flood sensor connection.



3. Installation

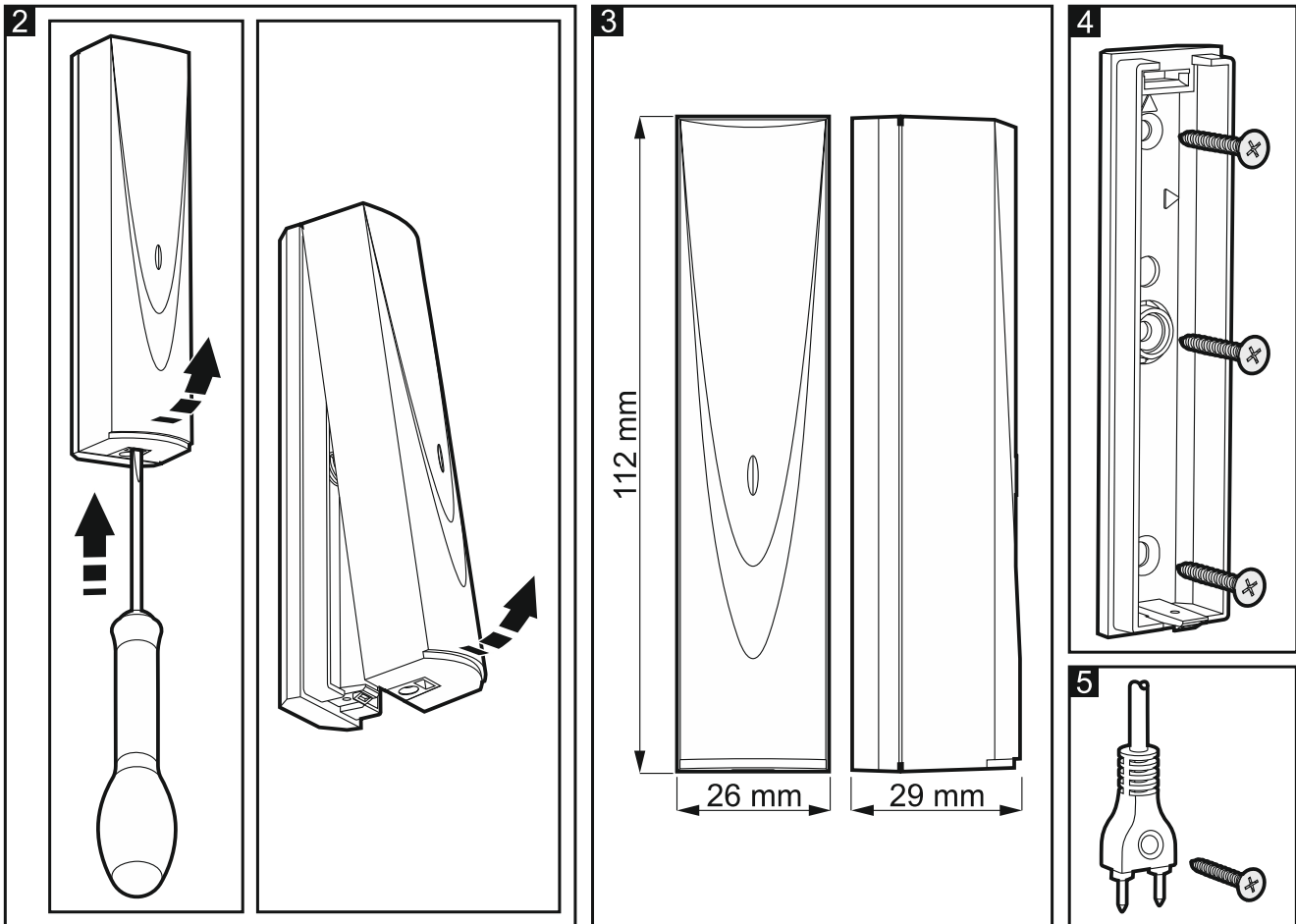


Disconnect power before making any electrical connections.

The detector is designed for indoor operation.

1. Select the place where the detector is to be installed.
2. Open the detector enclosure (Fig. 2).
3. Make the wire entry opening in the enclosure base.
4. Run the wires through the opening made.

5. Pull the flood sensor wires through the hole in the enclosure.



6. Use screws to fix the enclosure base to the mounting surface (Fig. 4). Wall plugs (screw anchors) and screws are included in the detector delivery set.
7. Connect the wires to the detector terminals.
8. Close the detector enclosure.
9. Test the detector for proper operation, by submerging the flood sensor in water.
10. Secure the flood sensor wires and the flood sensor itself (Fig. 5). The detector is now ready for work.

4. Specifications

Supply voltage	12 V DC (±15%)
Standby current consumption	2.5 mA
Maximum current consumption	4 mA
Relay contacts rating (resistive load)	40 mA / 16 V DC
Flood sensor cable length	3 m
Environmental class	II
Operating temperature range	-10 °C...+55 °C
Enclosure dimensions	26 x 112 x 29 mm
Weight	81 g

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