Livi CSM opening sensor manual

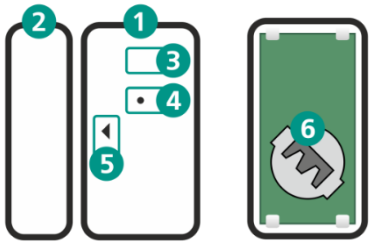
DESCRIPTION

The Livi CSM opening sensor (hereafter referred to as the sensor) is designed to control the opening and closing of structural elements such as doors, windows, shutters, hatches and gates. The sensor switches to the alarm mode when the structural element is open:

1. the sensor indicator blinks red once;
2. the sensor sends an alarm alert to the Livi Smart Hub (hereafter referred to as the hub).

The sensor consists of a magnetically operated switch (1) and a control element - a magnet (2).

SENSOR APPEARANCE



1. *Magnetically operated switch*
2. *Magnet*
3. *LED indicator*
4. *Hole to access the binding mode button*
5. *Mark for placing the magnet*
6. *Battery*

BINDING TO THE HUB

The sensor must be unpacked and allowed to reach room temperature for at least two hours before handling if it was transported or stored at low temperatures.

1. Insert a thin paper clip into the hole (4) in the device enclosure and press the binding mode button once. The sensor indicator will start blinking blue.
2. In the Livicom app, open the "Devices" screen. In the upper right corner of the screen tap "+" and select "Add Device". The sensor indicator will blink green 5 times after successful binding.

The sensor switches to the binding mode only for 60 seconds. If you have not bound it to the hub within this period, insert a thin paper clip into the hole in the sensor enclosure, press the button and hold it until the sensor indicator starts blinking blue. The sensor will switch to binding mode again.

CHOOSING A LOCATION FOR THE SENSOR

Mount the magnetically operated switch (1) to the fixed part of a structural element (e.g. a door frame), and then mount the magnet (2) to the moving part of the structural element (e.g. a door leaf or a window sash). The sensor can be mounted vertically or horizontally.

DO NOT install the sensor outdoors, in places with high humidity, or at temperatures exceeding the operating temperature range (see "Specifications" table).

EVALUATING SIGNAL STRENGTH

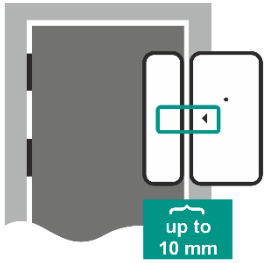
Check the quality of the connection between the sensor and the hub at the intended location of the sensor. There are two ways to evaluate the signal strength:

1. In the Livicom app, on the sensor settings screen.
2. With the help of the LED indication on the sensor. Insert a thin paper clip into the hole in the device enclosure (4) and press the binding mode button twice. Interpret the indication using the table below.

Good signal	The indicator blinks green 3 times
Average signal	The indicator blinks green twice
Poor signal	The indicator blinks green once
No connection	The indicator blinks red 4 times

SENSOR INSTALLATION

1. Open the enclosure of the magnetically operated switch (1):
   insert a flat-blade screwdriver into the hole between the lid and the base of the enclosure, and flip off the lid by turning the flat-blade screwdriver left or right.
2. Fasten the base of the sensor enclosure at the selected location using a supplied mounting kit.
3. Close the enclosure.
4. Open the enclosure of the magnet (2): press one of the latches on the short side of the magnet using a flat-blade screwdriver and then pull the lid up while pressing the latch.
5. Mount the magnet to the moving part of the structural element (e.g. a door leaf or a window sash).
6. Place the center of the magnet near to the mark (5) on the magnetically operated switch.



7. Close the magnet enclosure.

CHECKING THE SENSOR OPERATION

Check the operation of the sensor after its installation. Make sure that the LED indication matches the information in the "LED indication" table below when you open and close the structural element (door or window).

Enable full guard of the site through the Livicom app. Make sure that you see an alarm alert in the app when you open the guarded structural element.

If you see an incorrect indication or do not receive the alert, then check:

- whether the center of the magnet is placed near to the mark (5) on the magnetically operated switch;
- whether the magnet comes near the magnetically operated switch (up to 10 mm) when you open and close the structural element (door or window).

Contact technical support (mail to: support@livicom.ru) if the magnet is placed correctly and you still observe an incorrect indication or do not receive the alerts.

REPLACING THE BATTERY

1. Open the enclosure of the magnetically operated switch (1): insert a flat-blade screwdriver into the hole between the lid and the base of the enclosure, and flip off the lid by turning the flat-blade screwdriver left or right.
2. Pull out the sensor board, using the flat-blade screwdriver to unbend retaining clips.
3. Remove the battery and install a new CR2032 battery, observing polarity.

4. Reassemble the sensor by following the above steps in reverse order.

DELETING THE SENSOR (UNBINDING FROM THE HUB)

There are two ways to unbind the sensor from the hub:

1. In the Livicom app, on the sensor settings screen.
2. Using the binding mode button. Insert a thin paper clip into the hole in the sensor enclosure (4), press the binding mode button and hold it until the sensor indicator starts blinking blue.

MAINTENANCE

Keep the sensor free of dust and dirt. Replace the battery as soon as possible after you receive a low battery notification in the Livicom app.

Do not wipe the sensor with substances containing alcohol, acetone, gasoline and other active solvents

SPECIFICATIONS

Operating frequency	868 MHz
Radio communication range*	1000 m
Radio channel power	20 mW
Period of sending test events to the hub	2 minutes
Sensing distance	up to 10 mm
Current consumption in sleep mode	3 μA
Current consumption in active mode	up to 30 mA
Power source (3 V)	lithium battery CR2032
Battery life**	up to 2,5 years
Operating temperature range	from 0 to +55 °C
Relative humidity	no more than 80% at 25 °C
Magnetically operated switch dimensions	45 x 24 x 12 mm
Magnet dimensions	45 x 13 x 12 mm

* Radio communication range is the maximum distance between the hub and the sensor in line of sight and without interference.

** Battery life depends on the intensity of radio communication between the sensor and the hub. The maximum battery life can be achieved if the sensor is operated at the temperature of 25 °C, relative humidity no more than 80% and without vibration load.

SUPPLY SET

Livi CSM opening sensor	1
Mounting kit	1
Lithium battery CR2032 (3 V)	1
Packaging	1

LED INDICATION

Open	The indicator blinks red once
Closed	The indicator blinks green once
Binding mode	The indicator blinks blue for 1 minute
Confirmation of successful binding	The indicator blinks green 5 times

WARRANTY

The manufacturer LLC "NPP Stels" guarantees that the sensor meets AGNS.421453.001 TU technical requirements, provided that the consumer complies with the conditions of transportation, storage, installation and operation. The warranty period is 5 years from the manufacturing date. The warranty does not apply to batteries.

The warranty does not cover the following cases:

1. Non-compliance with the intended operating conditions;
2. Mechanical damage to the sensor;
3. Repairs to the sensor by a third party (a person or a company other than the Manufacturer).