MAKS WDC
WIRELESS MAGNETIC CONTACT SENSOR

MAKS

- **available in three colors**
- **secure two-way radio communication with MAKS PRO**
- **868,0 ... 868.6MHz, several channels for redundancy, range up to 2000 m**
- **power – lithium battery AAA**
- **up to 3 years of operation on one battery**
- **easy and fast installation**
- **secure fastening**
- **efficient on metal doors**

Security point magnetic contact radio channel detector (sensor) is designed to monitor the status of structural elements (open/move) in order to detect an attempt to enter the room. The device sends an alarm notification to the alarm center MAKS PRO security alarm system.

Mounted indoors, equipped with two reed switches and used to protect doors and windows.

The detector has contacts for connecting the arming information LED and external reed switch.

Radio communication

The detector transceiver operates in several channels of 868.0 ... 868.6 MHz band for redundancy. Secure two-way radio communication.
Distance - up to 2000 m in the open space.
Three grades of power, maximum - up to 20 mW.

Setting up

The detector operates only with the MAKS PRO wireless security system center, connection to other systems is not provided.
The sensor is connected to the security center and is configured using the MAKS Setup mobile application.

Features

Use only one of the three sensors: top, bottom built-in reed switches or external reed switches. Operation of two or more sensors at the same time is an alarm.
The time for switching on the external arming notification LED is 15 seconds

Batteries

The device uses an AAA battery

Lithium batteries (FR03)	Recommended (included)
Alkaline batteries (LR03)	Usage allowed at temperatures above +5℃
Salt batteries (R03)	**Do not use!**

For more information on setting up and operating the device, please visit www.maks.systems

Characteristics

Reed switch threshold	7-15 mm
Maximum number of actuations	not less than 1,000,000
Number of positions for magnet	2, anti-sabotage
ISM wireless interface, up to 2000 m	868.0... 868.6 MHz
Power (lithium battery included)	AAA battery (FR03) 1.5V
standby consumption	no more than 5 µA
transmission consumption	up to 70 mA
service life of battery (no external LED)	3 years
Electromagnetic field immunity	8 V/m
Operating temperature range	-10℃ to +55℃
Case color	white, dark brown, black
Detector dimensions	138 x 20.75 x 17.1 mm
Magnet dimensions	85 x 11 x 6 mm
Weight	65 grams
Connecting to WDC	external LED and reed switch
distance (cable length) to external elements	not more than 1 m

Functional parts of the device

1. Bottom plate of magnet case
2. Magnet case cover
3. Neodymium magnet
4. Bottom plate of the detector case
5. Magnet position marks
6. Capsule with the device
7. Position of reed switches in the capsule
8. LED indicator
9. Upper tamper contact
10. Battery (AAA)
11. Wires for reed switch connection (DC contact), LED (LED, LD + LED contact) and common wire (C contact, ground)
12. Wire niche
13. On/off button
14. Lower tamper contact
15. External reed switch
16. External LED
17. Detector case top cover
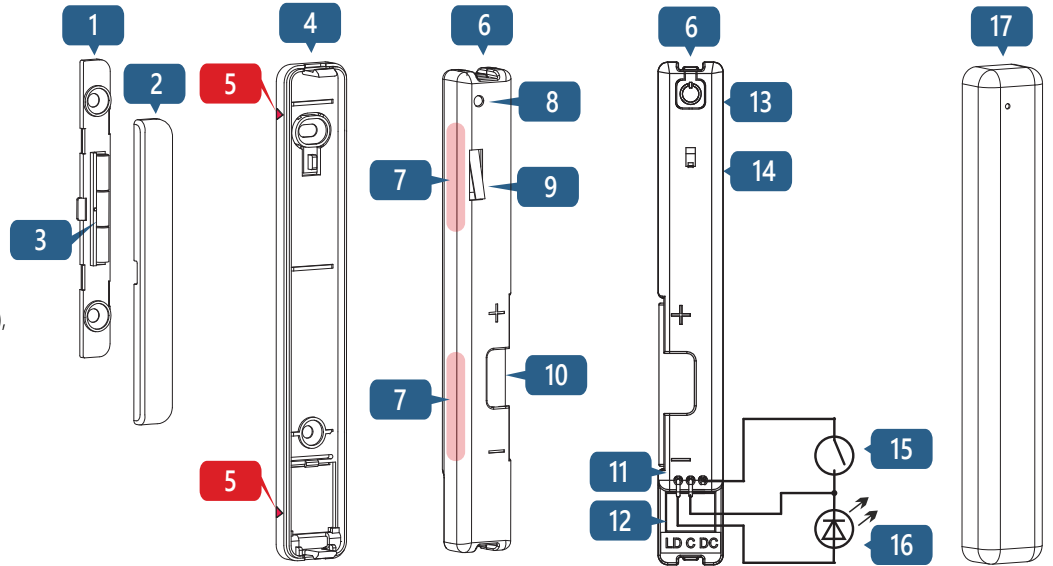
Installation and connection

Registration and setup

1. Place the detector at a distance of no more than 2 m from the MAKS PRO security center. The registration runs at the lowest possible power to avoid the influence of neighboring systems which can be being set up nearby.
2. Start the MAKS Setup application
3. Follow the instructions of the application to connect to the MAKS PRO and start the registration of MAKS wireless devices
4. Turn on the MAKS WDC, after 10-20 seconds it will be registered
5. Set up a new device in your mobile application

The sensor can be placed vertically or horizontally. Install magnet near makrs 5 on the detector case.

We recommend to install the device in the following order:
1. Selecting the installation location with the best signal using the MAKS Setup application
2. Mounting the magnet (step 1)
3. Installation of the detector bottom plate (step 2), according to the installed reed switch
4. Installation of the capsule with the device and closing the device case (steps 3-4)

When the capsule is inserted correctly, the lower and upper tamper must be clamped (locked).
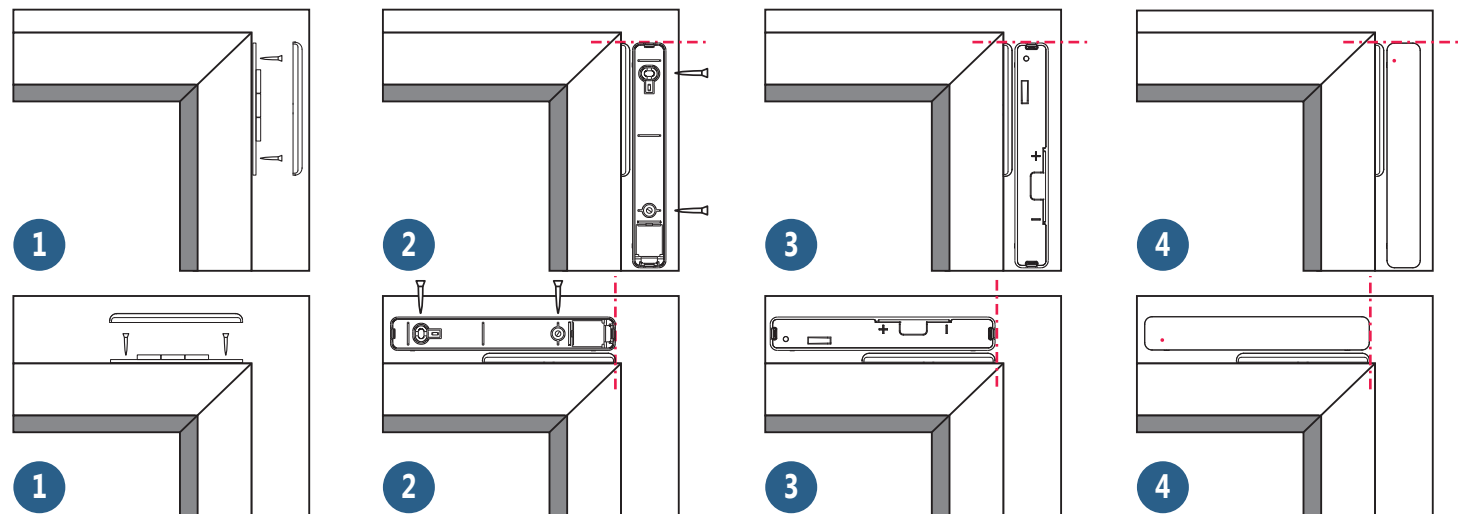
Switching on and off

Press button **13** to turn on the device - the indicator will be on. If the device is registered in the MAKS PRO, it switches to standby mode. If the sensor is not registered, it will switch to sleep mode after 30 seconds.
To turn off the device, press and hold button **13** for 5 seconds.

Selecting the installation location

Carefully select the installation location of the MAKS WDC detector.
The device should not be placed:
1. Outdoors or in areas with unacceptable humidity and temperature
2. In places with a high level of radio interference
3. Near objects that can cause radio signal attenuation or shielding (metal, mirrors, etc.)
4. At a distance of less than 1 m from the security center

Indication in communication test mode

Excellent connection - LED indicator flashes green
Satisfactory connection - LED indicator flashes yellow
Poor connection - LED indicator flashes red
No connection - LED indicator flashes red quickly

In test mode, the unit's radio transmitter operates at medium power..