

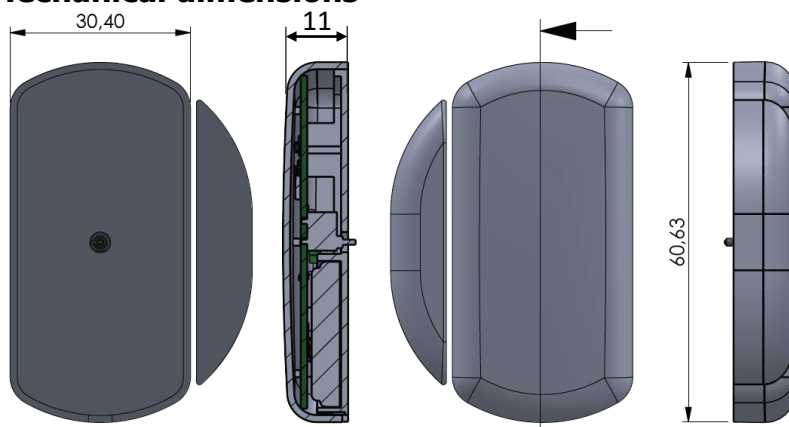
User manual

650201649G



Wireless magnetic contact for surface installation to protect doors or windows, nice design and small size.

- 3V CR2450 Lithium battery, able to guarantee 2-3 years operation
- Magnetic reed integrated on long side of the enclosure
- 20 x 6mm external magnet included in plastic enclosure
- Tamper switch detection
- Average consumption in sleep mode <math><2\mu\text{A}</math>
- Transmission by radio frequency operating at 433,92MHz: Alarm state after reed activation, tamper switch change state, low battery state.
- RF encoder type, HCS Microchip rolling code
- RGB Led indication for low battery alarm, installation operations, alarm state.
- Contactless copy code

Mechanical dimensions

User manual

650201649G

Radio Encoder:

The encoder generate a unique code programmed in factory for each device, the packet integrate a fix part and variable part of code. The code is standard HCS300 of Microchip.

- The HCS encoder set to 1 the bit n°65 of HCS when the battery drops below 2,2V.
- The tamper switch generate an alarm. See following table.
- The Magnetic switch generate an alarm different from other kind of alarm. See following table.

Name Alarm	HCS button status code (S3 – S2 – S1 – S0)
Test code	0000
Reed switch alarm (close)	0000
Reed switch alarm (open)	1000
Tamper alarm (switch close)	0000
Tamper alarm (switch open)	0100

Note: The codes alarm is binary And mode. For example, if the magnetic and tamper is open the code will be 1100.

Set up for installation:

1. Open the enclosure and insert a lithium battery CR2450. The led switch-on 3 time for 1 second, RED, GREEN and YELLOW, the radio transmit for 1 second.
2. Close the enclosure and wait for expired 10 second time-out, the yellow led switch ON for 1 second.
3. Put the magnetic in the mobile side of window or door and pay attention to be installed near the sensor, door or window closed condition, see picture 1.
4. During the installation procedure, the sensor work as below:

State	Led state	Radio
Reed switch Closed	Red	Radio transmit 10 packet (code switch ON)
Reed switch Open	Green	Radio transmit 10 packet (code switch off)

5. Open and close the door or window and verify the ON-off or off-ON switch of yellow led. 10 radio packets will be transmitted every time the reed switch change the state.
6. After 4 minutes the sensor ends the test mode and enters in alarm mode, the Yellow led blink 3 time.

User manual

650201649G

Alarm Mode:

In alarm mode the reed switch could be closed or open, the consumption is <2uA.

If the reed switch change state the device transmit 10 packet and the led displays the sensor state as below:

State	Led state	Radio
Reed switch Closed	RED led, ON state 1 second	Radio transmit 10 packet (code Reed switch ON)
Reed switch Open	Green led, ON state 1 second	Radio transmit 10 packet (code Reed switch off)

Battery alarm:

When the battery level is < 2,2Volts and an alarm is detected, the led associated to the alarm, blink 3 time.

Tamper Switch:

The device integrate a tamper switch that works as below:

State	Led state	Radio
Tamper switch Closed	Yellow led, ON state 1 second	Radio transmit 10 packet (code Tamper switch ON)*
Tamper switch Open	Yellow led, ON state 1 second	Radio transmit 10 packet (code Tamper switch off)*

Specification revision:

Release date	Revision	Changes from the previous revision
24/01/2025	1.0	First release