

OneGate

Magnetic contact detector for windows and doors opening and glass break.

The sensor is equipped with magnetic anti-masking with a dedicated output; anti-rip technology with triaxial accelerometer, input for roller contacts and displaying of alarm memory. It has dip switch variable functions. It's equipped with end-of-line impedances for double and triple balancing. Available in white and mahogany..

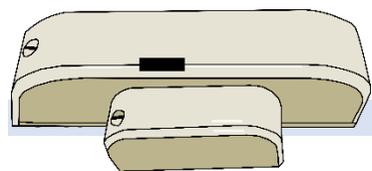
CHARACTERISTICS

- ✓ Magnetic sensor with Hall effect
- ✓ Magnetic anti-masking effect: the sensor is able to recognise a magnetic outside influence.
- ✓ Seismic detector
- ✓ Anti-rip technology with triaxial accelerometer
- ✓ Roller pulse-counter input
- ✓ You can position the magnets on both sides.
- ✓ 16 selectable EOL resistors for double/triple balancing
- ✓ Alarms LEDs displaying
- ✓ Conforming contact **CEI EN 50131-2-6** Grade 3 Class II

1 Installation guide

The sensor can be installed on window frames as a magnetic or seismic contact, and on windows as a seismic as an alarm for broken windows. Remove the circuit and secure the bottom with screws or glue

1.1 Magnetic contact installation

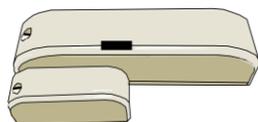


Output on ALL

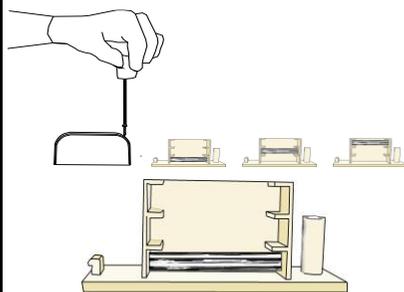


If the magnetic contact isn't requested, skip this paragraph.

Position the magnet on the right and/or on the left, like shown in the picture, on the door you want to check on.



Align the magnet positioning at a maximum distance of 1 cm. To balance the eventual difference between the sensor and the magnet, open the magnet-holder and position the magnet in one of the three positions shown.



The sensor is now able to report the opening of the door/window.

The alarm is sent to the ALL output of the terminal block

1.2 Anti-masking

DIP1 on ON masking function activated.

Output on Mask

The sensor will report (on the MASK output of the terminal block) MAGNETIC MASKING, when it detects a magnetic influence from the outside. This alarm situation lasts until the cause that generated it is removed

1.3 2 Seismic installation

When this function isn't needed, skip this paragraph.

DIP 3 in Pos ON Activated seismic alarm

ALARM DISPLAYING		
Alarm	Green Led	Red Led
Magnetic	ON	OFF
Seismic	OFF	ON
Rapid contact	ON	ON
Masking	Blink	ON
Anti-rip function	Blink	OFF

Output on CV-OUT

The sensor is able to detect powerful hits on the wall/window/door it's set on.

The alarm is sent on the CV-OUT of the terminal block.

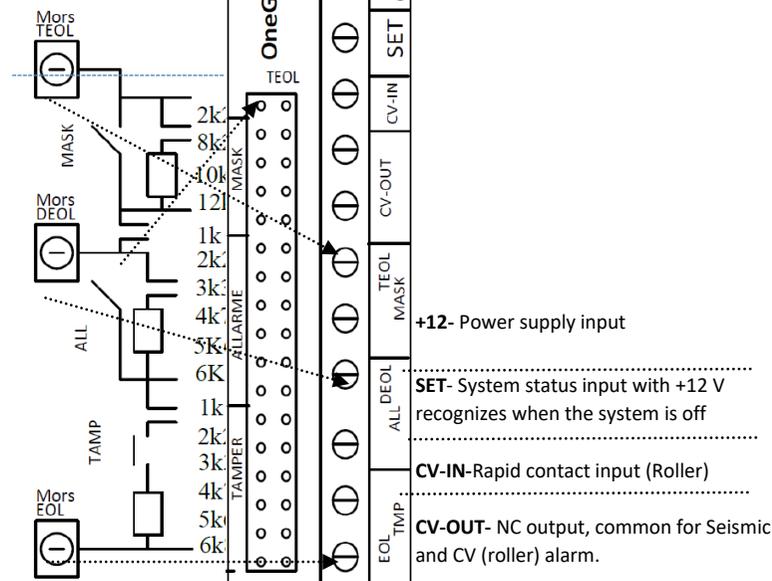
1. . INITIALIZATION

Once the sensor is linked and the radio coverage is verified, start the initialization. Remove the battery and set up the operative mode, close the eventual door with the magnet and insert the battery. The sensor will start an autonomous acquisition for 2 minutes. The LEDs will blink alternately. If there is a magnet, the blinking will increase after 20 secs. **Do not change the operative conditions**, (the door must be closed and the sensor mustn't be subjected to vibrations) Wait until the GREEN and RED LEDs will switch on, then push the Tamper and wait for the switching off of the LEDs. This will assure the exit from the acquisition mode. **N.B. Everytime, with opened Tamper, the sensor will be powered up, the sensor enters a magnet acquisition mode.**

The sensor is set up with the anti-rip technology disabled, with the seismic sensitivity calibrated, with roller sensitivity set on 15 impulses and displaying ON. When a variation of these configurations is requested, check the paragraph on programming (n.6) Otherwise, secure the upper lid and verify the correct functioning through LED reports.

2 Wiring

- Dip 1 Mask Pos on**
Mask enabled
- Dip 2 CV PGM Pos On**
Roller impulses calibration
- Dip 3 Seismic Pos On**
Seismic enabled
- Dip 4 Led Off Pos On**
Led disabled



LINES BALANCING

The sensor is equipped with selectable EOL resistors, for connections with boards that include Double Balancing (DEOL) or triple balancing (TEOL).

NB: Leaving the jumper opened, like in default, it will be set up as a normal sensor with NC contacts.

DEOL connection: Double balancing. Through the jumpers, select the Tamper resistors (series) and Magnetic Alarm, connect the DEOL and EOL clamps at the entrance of the board zone.

- TEOL** Triple balancing clamp
Tamp + ALL Magnetic + MASK
- MASK**-NC masking output
- DEOL**-Double balancing clamp
Tamp+ALL Magnetic
- ALL**- ALL Magnetic NC output
- TMP**- NC output, common for sabotage alarm, opening of the upper lid and anti-rip alarm, when enabled.
- EOL**-Clamp common for double or triple balancing

TEOL connection Triple balancing. Through the jumpers, select the Tamper resistors

3 Programming and calibration

3.1 Antirip technology

Output on TMP

The antirip function is disabled by default, follow these steps

To enable this function : position the **DIP 1 on OFF**

DIP 3 on OFF

When pushing the Tamper key and with blinking LEDs, set the DIP 1 on ON, release the Tamper and set the DIP3 on ON.If the RED LED is turned on and the GREEN LED starts blinking, the antirip technology is enabled..

Position now the DIPs for the requested functions.

Disable the antirip function:

Position **DIP 1 on. OFF**

DIP 3 on. ON

When pushing the Tamper key and with blinking LEDs, set the DIP 1 on ON, release the Tamper and set the DIP3 on OFF.If the RED LED starts blinking and the GREEN is turned on, the antirip technology is disabled

Position now the DIPs for the requested functions.

3.2 3CV Rapid contact (Roller)

Connect the roller between the clamp (-) and (CV-IN); the alarm is reported on the CV-OUT output. It's possible to change the number of impulses through the following procedure: while pushing the Tamper, set the **DIP3 on ON**; the leds will blink to show the system is in programming mode.

Release the Tamper and generate the number of impulses you want: at every impulse, the GREEN LED will blink to confirm the right acquisition of the impulses. Position, now, the **DIP3 on OFF**

3. Seismic calibration

The sensor has its calibrated sensitività by default.If you want to change it, follow these steps

(series)and Magnetic Alarm, Mask and TEOL.

Alarm memory display		
Alarm	Green led	Red led
Magnetic	Blink	OFF
Seismic	OFF	Blink
Rapid contact	Blink	Blink
Masking	Blink	ON
Anti-rip	ON	Blink

position the **DIP on OFF**. Push the Tamper key and position the **DIP 2 on ON**, release the Tamper and wait for the GREEN LED to turn on. This confirms the system is now in calibration mode. Hit the frame or the window 10 times (you choose the intensity you need). Every hit the system acquires will be confirmed by the blinking of the GREEN LED. The sensor sets the new sensitivity limits, based on the average hit, for the alarm condition. The calibration will end when the LEDs will blink alternately, otherwise the previous limits will stay put. To restore the initial sensitivity, enter the calibration mode and push the Tamper key.

3.4 LED OFF

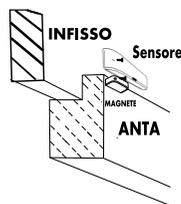
While on ON, disable the relevation displayings. With the SET line connected, When the system is turned off (SET line +12V), the sensor will activate the displayings for 30 secs after the first relevation. When it is turned on, the displayings will be available for 20 minutes, no matter the setting, to allow you to verify the right functioning.

4 Alarm memory

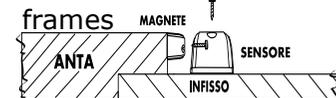
. With the SET line connected, When the system is turned off, the first alarm will be displayed,(check the chart). The memory will reset when the system is reactivated.

The memory is delayed (30 sec) to allow you to use it in timed zones.

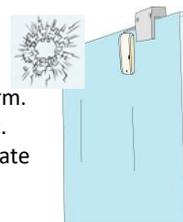
connect the TEOL and EOL clamps at the entrance of the board zone.



Alternative installation on wooden window frames

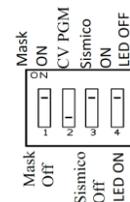
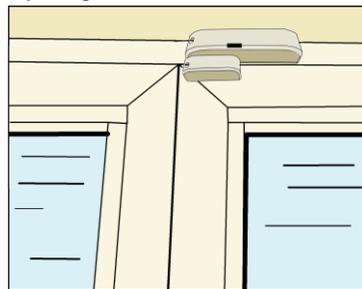


Installation on glass of a seismic alarm. Glue the sensor without the magnet. An attempt of glass break will generate a seismic alarm on the CV output.



Typical installation

Installation on glass door, magnetic and seismic antishock opening..



Mask Active
Pgm Roller Off
Seismic Active
Led disabledi

The gap is protected from the opening (magnetic contact ON) and from breakthrough by the seismic. When the magnet is masse, an anti-masking alarmi s generated. In case of removal of a sensor, an alarm on the Tamper line will be generated. In LED OFF, you'll have the displayings disabled, with no infos given

The CV OUT output (roller and seismic alarm) don't have resistor of balancing

to the eventual thief.. With the SET line connectedwhen the system is switched off, you will be able to verify its functioning.

WARRANTY

This product is ensured for 5 years (upon the occurrence of malfunctioning or manufacturing faults).

DATA	
Power supply	12V cc +/- 30%
MAX absorption	10 mA
Magnetic alarm length	Per la durata della condizione
Seismic and Roller CV Alarme length	3 Sec
Working temp.	-5°C / +55°C
Humidity	95%
Contact conforming to CEI EN 50131-2-6 Grade 3 Class II	

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Garanzia: il prodotto è garantito per 5 anni

