

BATTERY REPLACEMENT

The detector checks its battery voltage and transmits the information to the panel. When the control panel displays a low battery indicator, the detector will continue to operate for at least 2 weeks. Nevertheless it is recommended to replace the battery as soon as possible. This must be done by a qualified technician and the control panel must be in **service mode**.



It is not allowed to discard batteries in to common trash bins, they must be discarded only in battery recycling points. Do not incinerate.

WARRANTY

Olympia Electronics guarantees the quality, condition and operation of the goods. The period of warranty is specified in the official catalogue of Olympia Electronics and also in the technical leaflet, which accompanies each product. This warranty ceases to exist if the buyer does not follow the technical instructions included in official documents given by Olympia Electronics or if the buyer modifies the goods provided or has any repairs or re-setting done by a third party, unless Olympia Electronics has fully agreed to them in writing. Products that have been damaged can be returned to the premises of our company for repair or replacement, as long as the warranty period is valid.

Olympia Electronics reserves the right to repair or to replace the returned goods and to or not charge the buyer depending on the reason of defection. Olympia Electronics reserves the right to charge or not the buyer the transportation cost.

HEAD OFFICE

72nd km. O.N.R. Thessaloniki-Katerini
P.C. 60300 P.O. Box 06 Eginio Pierias Greece

www.olympia-electronics.gr
info@olympia-electronics.gr



BS-471 Wireless Magnetic Contact



TECHNICAL SPECIFICATIONS

POWER SUPPLY	CR-123A lithium battery (3V rated voltage)
BATTERY LIFE	> 2 Years with 20 activations per day
FREQUENCY OF COMMUNICATION	868 MHz
COMMUNICATION RANGE	About 200m (open area)
DEGREES OF COVER PROTECTION	IP40
PRODUCED IN ACCORDANCE WITH	EN 50131-1, CLC/TS 50131-2-2, EN 50131-5-3 classification: grade 2
COMPLY WITH	ETSI EN 300220, EN 50130-4, EN 55022, EN 60950-1 ERC REC 70-03
OPERATION TEMPERATURE RANGE	-10 to +40 °C
CONSTRUCTION MATERIALS	ABS/PC
DEVICE DIMENSIONS (LxWxH)	30 x 25 x 106 mm.
MAGNET DIMENSIONS (LxWxH)	10 x 15 x 50 mm.
TYPICAL WEIGHT	45 gr.
GUARANTEE	2 years

Thank you for your trust in our products
Olympia Electronics - European manufacturer

GENERAL

The device **BS-471** is a component of the alarm system **BS-468/A**. It is designed to detect when a door or a window is opened or closed. It can also accept input from an external magnetic contact (Normal Close). The detector is powered by battery. It consists of two items, the electronic device and the magnet.

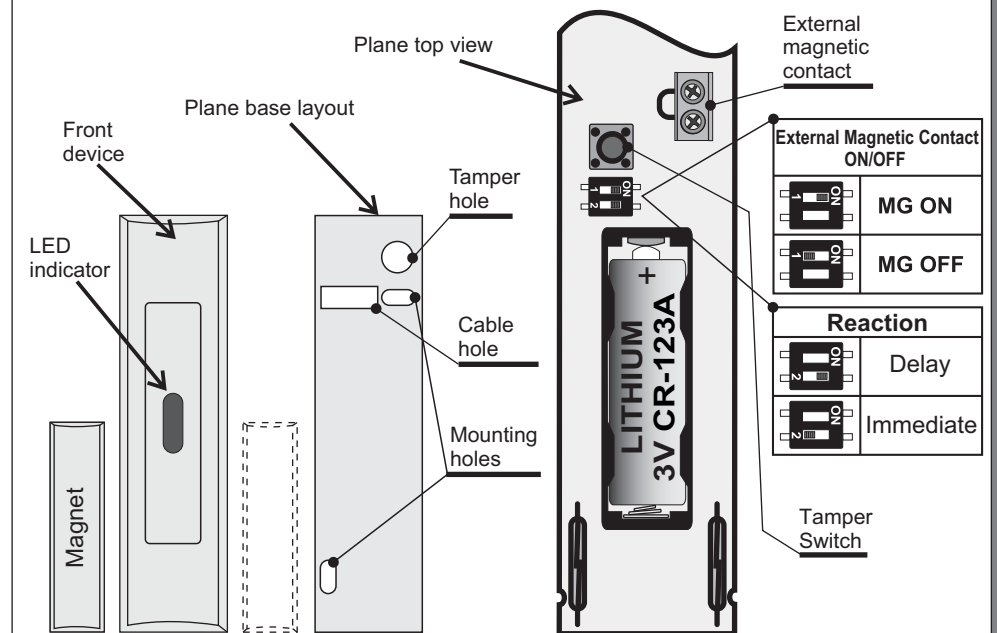


Figure 1

INSTALLATION

Installation should only be carried out by qualified technicians. The device is activated when it is moved away from the magnet. The main device must be installed in the stationary part of the window or door and the magnet in the moving part. The detector must be installed vertically. It is forbidden to be installed inside a metal frame (it prevents wireless communication). Its use is not reliable on an iron door or an iron window.

To install, follow the procedure below:

1. Open the lid of the device.
2. Secure the back plastic to the stationary part of the window or door.
3. Attach the magnet to the moving part. The distance from the device must be a maximum of 5mm when the door / window is closed. The bottom of the magnet must be aligned with the bottom of the device (Figure 1). **The magnet may be located either to the left or to the right of the device, but please pay attention to the alignment marks (Figure 2).** **NOTE!!! Deviations from those alignment marks may lead to reduced magnet cover range.**
4. Unplug the battery and let the lid open, set the panel to installation mode of wireless devices (see the manual of the table).
5. Insert the battery into the device and close the lid.
6. Please, note that the device has reverse installation protection for the battery.

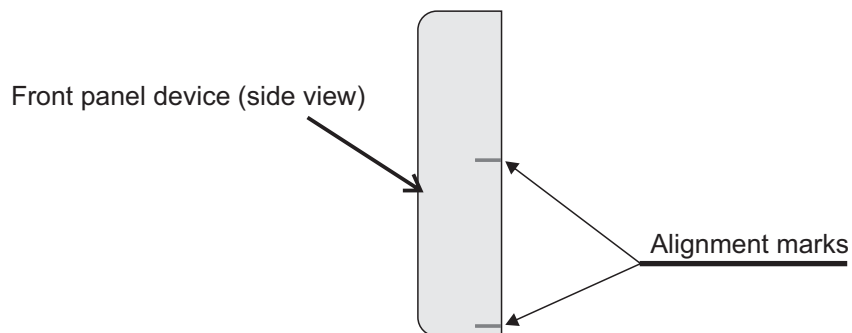


Figure 2

DIP SWITCHES

MG ON / MG OFF. Enable the external magnetic sensor (ON Position). It is useful when the device co-operates only with external magnetic contacts.

DEL / INS: **DEL** ensures that there are delays in input and output for installed detectors at the entrance of a building. The **INS** allows the detector to directly cause the triggering of an alarm if the control panel is armed. This DIP-switch (**DEL/INS**) has effect only if the scanner has been programmed in a **natural reaction** from the control panel (zone with delay or zone without delay).

ATTENTION!!! When zone with delay is selected, it is necessary the setting of the BS-468/A to be done.

CONNECTION WITH EXTERNAL MAGNETIC CONTACTS

The device can be connected to external magnetic contacts via the CN2 terminal block (Figure 3). If a magnetic field is connected to this input, the device sends an alarm signal to the control panel. If the contact is not connected to an external device, at the cable terminal of the CN2, then manufacturer's cable must remain.

NOTE: The maximum distance of the external sensor cable is 3 meters !!!

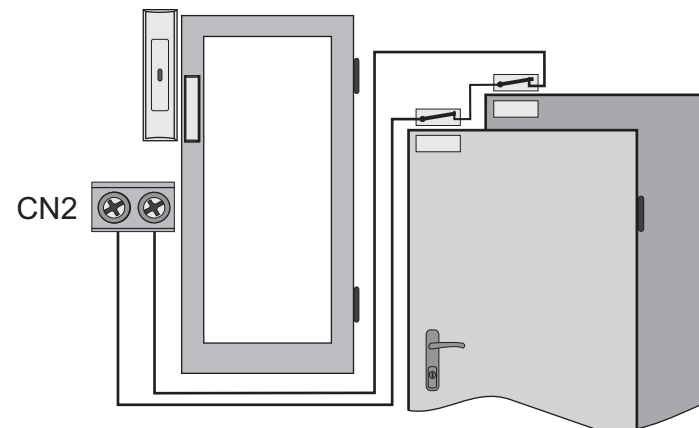


Figure 3.
Example of connection NC external magnetic contacts with BS-471

RANGE TEST

Once the device is connected to the panel's network, remove the battery and wait for 10 seconds. Then press the tamper and reinstall the battery. Wait until the LED lights up. Once you release the tamper, the LED will go out. In this case, the range test will start. During range test the device LED blinks every second. The duration of range TEST is 60-95 seconds. When it is finished the LED goes off and after 2 seconds the test result is displayed as follows:

Single blink: Strong signal. The device can be safely installed at this point.

Two blinks: Normal signal. The device can be safely installed at this point.

Three blinks: Weak signal. It is recommended not to install the device at this point.

There will be communication between the device and the control panel but there will be communication packets losses.

Four blinks: Out of range. The device is forbidden to be placed in this point.

Note!!! As soon as the TEST procedure is started, it is suggested that the device cover will be placed directly in order to simulate the actual communication conditions. The environment must be also adapted to the worst possible conditions (eg closed doors). Finally, in case of home improvements or renovation, it is suggested to perform a range TEST again.