

# JA-15M Wireless magnetic door detector

The JA-15M is a component of JA-10 system. It is used to detect the opening of doors, windows etc. The battery powered detector has an optional reaction (pulse or status).

## Installation

**Choose the suitable place for detector's installation.** The detector reacts to the removal of its magnet unit. The electronics should be installed onto the non-moving part of windows or doors, and the magnet onto the moving part. Avoid locating it directly on a metal frame as metal influences the functioning of the magnetic sensor and radio communication.

1. Open the detector cover by pressing the tab in. (Fig. 1)

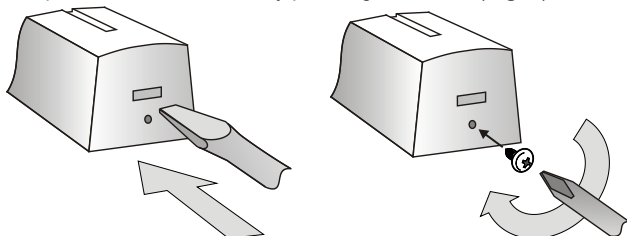


Fig. 1 and 2

2. Screw the rear cover to the solid part of the door/window. The marks A and B show the right position of the magnet. (Fig. 3)

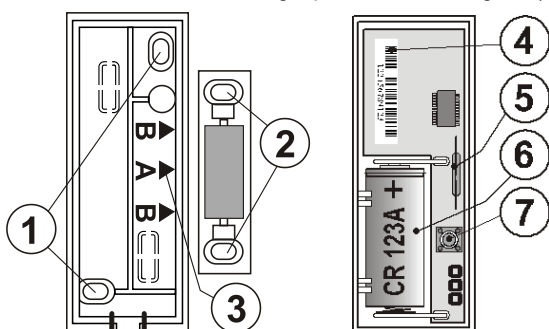


Fig. 3 and 4 - 1. mounting holes of the detector; 2. mounting holes of the magnet A, 3. magnet A and B position marks; 4. serial number; 5. reed contact; 6. battery CR123A; 7. tamper;

3. Attach the magnet to the moving part of the door (window). The standard magnet in a plastic housing opposite the A arrow and the ring shape magnet against the B arrow. Its distance from the detector should be as small as possible when the door/window is closed. In the picture Fig. 5 and Fig. 6 are shown the reaction areas for magnets in millimetres in three axes of movement and on the non-magnetic / magnetic surface. **Note:** Use the supplied plastic part to compensate the possible height difference for magnet A.

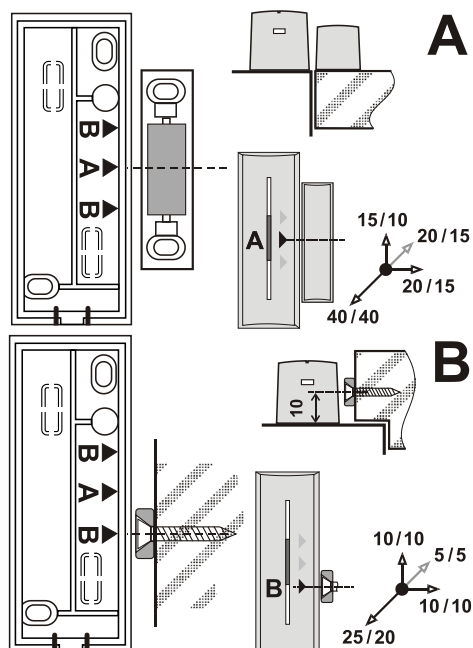


Fig. 5 and 6

4. Enrol the detector into the control panel (receiver). There must be a JA-111R radio module present in the system for the detector to be enrolled. Go to the **N-Link** program, select the required position in the **Devices** tab and launch enrolment mode by clicking on the Enrol option. The enrolment signal is transmitted as soon as the battery is inserted into the detector.
5. Mount the front cover onto the rear part
6. Set the detector's reaction in SW **N-Link**.
7. Test the detector's function.
8. The tab can be fixed using supplied screw (Fig. 2).

### Notes:

- If you want to enrol a detector which has already been connected to a battery, first disconnect the battery, then press and release the tamper contact in the cover (7) in order to release the remaining charge and then you can proceed with the enrolment.
- The detector can also be enrolled into the system by entering its production code (4) in the N-Link program or on a keypad (or using a bar code scanner). All numbers stated under the bar code shall be entered (1400-00-0000-0001).

## Settings

The detector has two function modes which are indicated with either one or two flashes of the LED indicator when the battery is inserted.

- **One flash** means the detector will report both opening and closing of the door (window) - status reaction.
- **Two flashes** indicate a pulse reaction, i.e. the detector will report activation (door or window opening) only.

The function modes can be set by holding the tamper contact in the detector cover, inserting the battery and releasing the tamper contact after 3 - 5 seconds. The detector then flashes either once or twice to indicate the currently selected mode. The default setting is **Status** mode. Currently selected mode is also displayed in the detector's internal settings in **N-Link**.

Other functions can be set in the **Devices** window in the **N-Link** program. Here you can set the type of reaction of the system to the activation of the enrolled detector, section to which the detector should be enrolled and also a PG output which can be controlled by the detector. The default setting is a **Delay** reaction (provides entrance and exit delay).

## Testing the detector

When you close the detector cover, a detector testing mode is triggered for 15 minutes and each activation is indicated by the LED indicator on the detector cover. The detector signal and its activation can be monitored in the control panel service mode in the Diagnostics window in the N-Link program.

## Battery replacement

The detector monitors its battery voltage and if it is low, a report is sent to the control panel to inform the installer or user. The detector continues to function and shows each triggering of the detector with a flash of its LED. Battery replacement should not be delayed by more than two weeks. This should be done by a qualified technician with the control panel in Service mode.

**Note:** If a partly discharged battery is inserted then the LED start flashing for one minute. Then the detector will work but the Lo Bat signal will be sent to the control panel. Expired batteries should not be thrown into the garbage but disposed of according to local regulations.

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## Technical specifications

Power: Lithium battery type CR123A (3.0 V/1.4 Ah)  
Please note: Battery is not included  
Typ. battery lifetime: approx. 10 years for max. 20 daily activations  
Communication band: 868.1 MHz, protocol JA-10  
Communication range: approx. 300 m (open area)  
Dimensions: transmitter part 75 x 31 x 23 mm  
A magnet: 56 x 16 x 15 mm, B magnet: Ø10 x 4 mm  
Weight: 37 g  
Operational environment according to EN 50131-1: II. Indoor general  
Operational temperature range: -10 to +40 °C  
Classification: grade 2  
according to: EN 50131-1, EN 50131-2-6, EN 50131-5-3  
Complies with: ETSI EN 300 220-2, EN 50130-4,  
EN 55032, EN 50581, EN 62368-1  
Can be operated according to: ERC REC 70-03



JABLOTRON ALARMS a.s. hereby declares that the JA-15M is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at [www.jablotron.com](http://www.jablotron.com) - Technical Support section.



Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use. For more detailed information visit [www.jablotron.com](http://www.jablotron.com).