

JA-151M, JA-151MB, JA-151M-AN, JA-151M-GR

Wireless magnetic door detector - Mini

The detector is a component of the **JABLOTRON** system. It is used to detect the opening of doors, windows etc. The detector has an optional reaction (pulse or status). It should be installed by a trained technician with a valid certificate issued by an authorized distributor.

Installation

Choose a suitable place for the detector's installation. The detector reacts to the removal of its permanent magnet. The magnet can be installed on the left or on the right side of detector. The electronics should be installed onto the fixed part of window or door and the magnet onto the moving part. Avoid direct installation on a metal frame as it may adversely affect the operation of the magnetic sensor and radio communication.

If it is necessary to install the detector on metal surface, use the supplied separation plates (1), which can improve both, magnetic sensor functioning and also radio communication range.

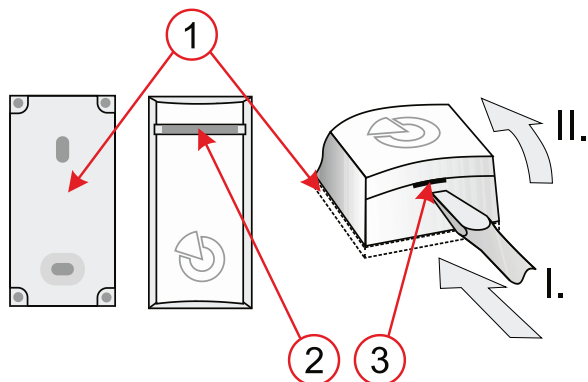


Figure 1: 1 – separation plate; 2 – red activation indicator; 3 – cover tab

1. Open the detector cover by pushing the tab (3).
2. Screw the rear cover to the door (window) frame.
3. Screw the permanent magnet to the moving part of the door (window). The distance between the electronic part and the magnet should be as small as possible. The activation/deactivation distances between the magnet and the detector are shown in the following Figure 2. For other types of magnets or opposite polarity, the values may vary.

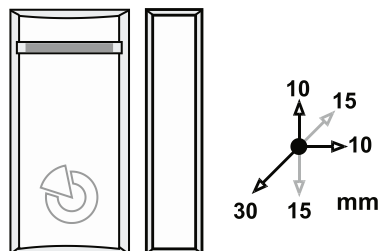


Figure 2: Distances for activation/deactivation of a detector installed on non-magnetic (magnetic) surface

4. Enroll the detector to a control panel (receiver). There must be a JA-11xR radio module present in the system for the detector to be enrolled. Go to the F-Link program, select the required position in the **Devices** window 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. When the detector has been enrolled, insert it into the base.
6. Use the **F-Link** program to set the detector's functions.
7. Test the detector's correct functioning.

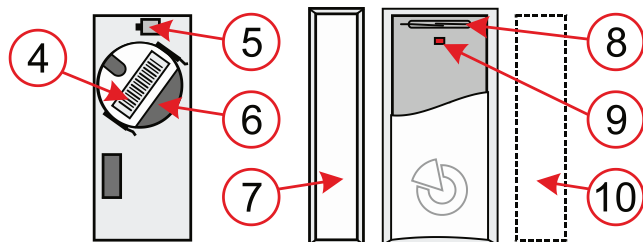


Figure 3: 4 – serial number; 5 – tamper contact; 6 – battery; 7 – permanent magnet; 8 – magnetic sensor; 9 – red detector activation indicator; 10 – alternative placement of the permanent magnet

Note:

If you want to enroll a detector which has already been connected to a battery, first disconnect the battery, then press and release the tamper contact in the cover (5) in order to release the remaining charge and then you can proceed with the enrollment.

The detector can also be enrolled into the system by entering its serial number (4) in the F-Link software or on a keypad (or using a bar code scanner). All numbers stated under the bar code shall be entered (1400-00-0000-0001).

Setting the detector properties

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 activations (door or window opening) only.

The function modes can be set by holding the tamper contact, 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.

Other functions can be configured in the **Devices** window in the **F-Link** software. Here you can set the type of reaction of the system to the activation of the detector, section to which the detector is assigned and the PG output which can be controlled by the detector. The default setting is a **Basic** reaction (Delayed A = provides entrance and exit delay).

Detector testing

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 **F-Link** software.

Battery replacement

The detector monitors its battery voltage and if it is low, a report is sent to the control panel to inform the user. The detector continues to function. Battery replacement should be done by a qualified technician with the control panel in Service mode within 14 days of the report. Test the correct function of the detector after each battery replacement.

Technical specifications

Voltage	Lithium battery type CR2032 (3.0 V / 0.2 Ah)
Typical battery lifetime	Please note: Battery is not included cca 2 years (max. 20 activation daily)
Communication band	868.1 MHz, protocol JABLOTRON
Maximum radio-frequency power (ERP)	3 mW
Communication range:	approx. 300 m (open area)
Dimensions: transmitter part	55 x 26 x 16 mm
permanent magnet	55 x 16 x 16 mm
Operational environment according to EN 50131-1	II. Indoor general
Operational temperature range	-10 °C to +40 °C
Classification	grade 2
according to	EN 50131-1, EN 50131-2-6, EN 50131-5-3
Complies with	ETSI EN 300 220-1, EN 50130-4, EN 55032, EN 62368-1, EN IEC 63000
Can be operated according to:	ERC REC 70-03
Recommended screw	2x Ø 3.5 x 40 mm (flat head)



JABLOTRON a.s. hereby declares that the JA-151M, JA-151MB, JA-151M-AN, JA-151M-GR 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 - section Downloads.

Note: Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please return the product to the dealer or contact your local authority for further details of your nearest designated collection point.