

JA-155M, JA-155M-BR, JA-155M-GR, JA-155M-AN

Wireless mini magnetic detector

The product is a component of the JABLOTRON system. It is used to detect the opening of doors, windows, etc. The detector has either a state response or a pulse response. The detector is designed to be installed by a trained technician with a valid Jablotron certificate. **This product is compatible with JA-102K, JA-103K, JA-107K and JA-152KRY control panels.**

Installation

Place the detector on the fixed part of the door (window) and the magnet on the moving part. The magnet can be attached to the detector from the left or the right. When mounting on a metal surface, it is recommended that the magnet be spaced away from the metal surface using the supplied plastic pads.

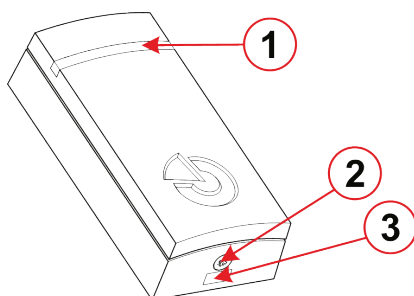


Figure 1: Description of external parts of product: 1 – LED light guide; 2 – locking screw; 3 – cover tab

1. Open the detector cover by pressing the latch (3).
2. Screw the housing part to the selected location on the door or window frame.
3. Insert the battery into the battery holder (5).
4. Replace the detector cover, snap into the cover latch (3) and secure with the supplied locking screw (2).
5. Screw the permanent magnet (4) onto the moving part of the window or door.

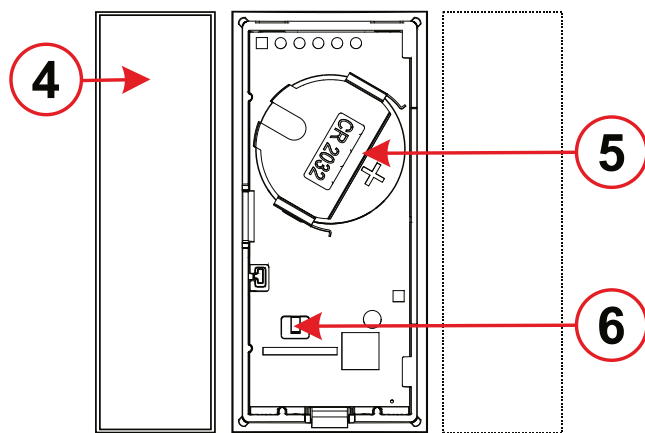


Figure 2: Description of internal parts of detector: 4 – permanent magnet; 5 – battery holder; 6 – tamper

Detector communication in the system

The detector uses bi-directional asynchronous communication which allows changing the internal settings remotely and saving battery capacity simultaneously.

After enrolment to the system, the detector operates in an accelerated mode, until the service mode is exited (but no longer than 24 h). In this mode, the detector checks every 90s whether the system is still in service mode or if new settings should be taken over.

In service mode, the detector communicates once every 19 minutes or with each activation. Therefore, when switching from operational mode to service mode, it can take up to 19 minutes for the detector to recognize control panel status or internal settings change, this is indicated by the red font on the internal settings button. This period can be reduced by activating the detector or its tamper sensor.

Please note:

It is not necessary to wait 90 s (or 19 min) until the detector confirms delivery of the new setting, when changes are applied. The system remembers the requested change and forwards the new settings to the detector during the next period of regular communication.

Enrolment to the system and settings

Depending on the type of control panel, use the recommended software or application, see the control panel manual. The detector can be set with a Status* / Impulse response.

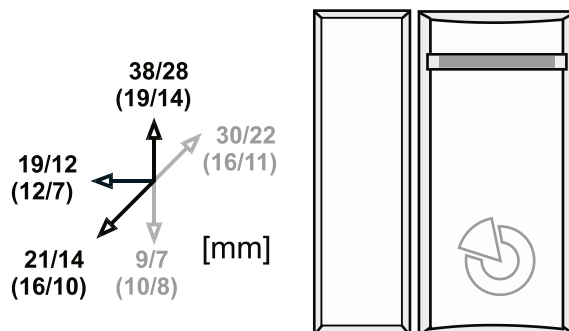


Figure 3: Orientation detection distance – activation/deactivation on a non-magnetic (magnetic) surface

Technical specifications

Power	1 x lithium battery, type CR2032, 3 V / 230 mAh
	Please note: Battery not included
Typical battery lifetime	2 years
Low battery voltage	<2.6V
Quiescent current consumption	14.3 µA
Maximum current consumption	50 mA
Communication band	868.1 MHz, JABLOTRON protocol
Maximum Radio Frequency Power (ERP)	<25 mW
RF range	300 m (open area)
Dimensions of detector	28 x 58 x 17 mm
Dimensions of magnet	17 x 58 x 17 mm
Weight of detector (without battery)	13 g
Weight of magnet	16 g
Classification	security grade 2 / environmental class II (according to EN 50131-1)
Environment	indoor general
Operating temperature range	-10 °C to +40 °C
Average operating humidity	75 % RH, non-condensation
Certification body	Trezor Test s.r.o. (no. 3025)
In compliance with	EN IEC 63000, EN 50130-4, EN 55032, EN ETSI 300 220-2, EN 50131-1, EN 50131-2-6, EN 50131-5-3, EN 50131-6, EN IEC 62368-1, EN IEC 62311
Can be operated according to	ERC/REC 70-03
Recommended screw	4x ø 3 mm (half-rounded head)



JABLOTRON a.s. hereby declares that the JA-155M, JA-155M-BR, JA-155M-GR, JA-155M-AN product is in a compliance with the relevant Union harmonisation legislation: Directives No.: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU, if it is used as intended. 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.