# Wireless magnetic detector with 2 universal inputs – anthracite

Code: JA-154M-AN

A magnetic opening detector with two independent universal inputs for external sensors with a potential-free output. It replaces the JA-150M and now uses two-way asynchronous communication.



## Product description:

The JA-154M wirelessly transmits up to two independent closed / open states to the JABLOTRON 100+ system from devices with a potential-free output: external magnetic contacts, push buttons or relay outputs of other systems. With its built-in magnetic sensor, the detector also works as a standard door and window opening detector.

Compared with the JA-150M, it brings:

- asynchronous communication with no DIP switches; all settings are made in F-Link,
- a plug-in terminal block for faster cable connection,
- a new tamper contact position, so the contact is not pressed by accident during installation and does not cause false alarms.

Typical applications:

- garage doors with the SA-220 contact, swing and sliding gates with the SA-204 contact,
- concealed drill-in contacts SA-210 and SA-211 in windows and doors,
- renovations: connecting an older contact built into a window where no cable can be run to the control panel,
- the CT-01 roller shutter sensor to detect tampering with external roller shutters,
- the LD-81 flood sensor in inaccessible places (for example behind a wall-hung toilet frame or a bathtub panel),
- a level switch in a tank or sump, outputs of CCTV, fire or access control systems, a doorbell button or an evacuation button.

Instead of triggering an alarm, the input state can be shown for information only through a PG output on the keypad or in the MyJABLOTRON app, for example an open garage door.

In F-Link, inputs IN1 and IN2 can be set to enabled, single or double balanced (1 kΩ resistor), roller shutter mode, LD-81 flood mode or pulse mode. An external tamper contact is connected to the TMP input, for example on a distribution box door. Up to two LD-81 flood sensors can be connected.

The package contains two magnets: a large ferrite magnet in a plastic cover and a small neodymium ring. After enrollment, the detector occupies three positions: the built-in magnetic sensor, input IN1 and input IN2. Unused positions can be removed. The system must include a JA-11xR radio module for enrollment. The detector is designed for indoor use. The product can be installed by a certified technician with a valid certificate issued by an authorized distributor.

## Technical information:

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| **Power** | 1x alkaline battery type AA (LR6, 1.5 V / 2.4 Ah). Please note: Battery is not included |

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| **Typical battery lifetime** | about 6 years |
| **Low battery detection** | < 1.1 V |
| **Nominal / maximum current consumption** | 38 µA / 80 mA |
| **Communication** | two-way, asynchronous |
| **Communication band** | 868.1 MHz, JABLOTRON protocol |
| **Maximum radio-frequency power (ERP)** | < 25 mW |
| **RF range** | approx. 300 m (open area) |
| **Inputs** | IN1, IN2, TMP (external tamper contact), common terminal COM |
| **The maximum length / diameter of cable for external detectors** | 3 m / 5 mm |
| **Detector dimensions** | 25 x 110 x 23.3 mm |
| **Magnet dimensions** | 16 x 55 x 15 mm |
| **Weight (without battery)** | 40 g |
| **Classification** | Grade 2 / Environmental class II (according to EN 50131-1) |
| **Operational environment** | Indoor general |
| **Operational temperature range** | -10 °C to +40 °C |
| **Average operational humidity** | 75 % RH, non-condensing |
| **Certification body** | Trezor Test s.r.o. (No. 3025) |
| **Complies with** | EN 50130-4, EN 61000-6-2, ETSI EN 301 489-1, ETSI EN 301 489-3, ETSI EN 300 220-2, EN 62311, EN 62368-1, EN 50131-2-6, EN 50131-6, EN 50131-5-3, EN IEC 63000 |
| **System compatibility** | JA-102K, JA-103K, JA-107K, JA-108K, JA-152KRY, JA-153KRY |
| **Can be operated according to** | ERC REC 70-03 |