Wireless magnetic detector with 2 universal inputs – grey

Code: JA-154M-GR

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:

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

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