

The AMD-102 wireless magnetic contact is designed for operation as part of the ABAX two-way wireless system. The device is supported by the ACU-100 controller with firmware version 2.01 or later and by the INTEGRA 128-WRL control panel with firmware version 1.07 or later. This manual applies to the magnetic contact with electronics version 1.3 or later.

Two reed switches are employed in the magnetic contact. You can program by radio which of them is to be active. The magnetic contact has two additional inputs (one NC type and the other one for roller shutter detector). It occupies two positions in the ABAX system (first: magnetic contact; second: additional inputs).

Explanations for Fig. 1:

1 - additional input terminals:

R - input for roller shutter detector

COM - common ground

M - NC type input

2 - tamper contact which reacts to opening and/or tearing off the housing from its mounting surface.

3 - CR123A 3 V lithium battery, ensuring operation for approx. 3-year period. The device monitors the battery status. When the voltage drops to 2.6 V, a low battery message is sent. Indication of the low battery status will continue until the battery is replaced.

4 - location of the side reed switch (mounted on the other side of the electronics board).

5 - location of the bottom reed switch (mounted on the other side of the electronics board).

The LED indicator is only "on" in the test mode, indicating communication (during polling), violation and tamper.

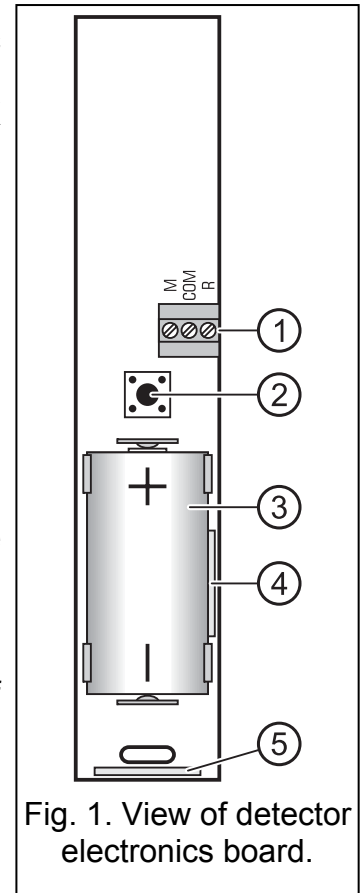


Fig. 1. View of detector electronics board.

1. Installation



Before you mount the magnetic contact permanently, check the level of signal received from the device by the ACU-100 controller or by the INTEGRA 128-WRL control panel and, if necessary, change the place of installation so that the location is optimal in terms of communication.

Install the battery inside the magnetic contact just before registering it in the ABAX system. If unregistered or having no communication with the ABAX system, the device will consume more energy, which will reduce the battery life.

Be particularly careful during installation so as not to make damage to the reed switches on the electronics board.

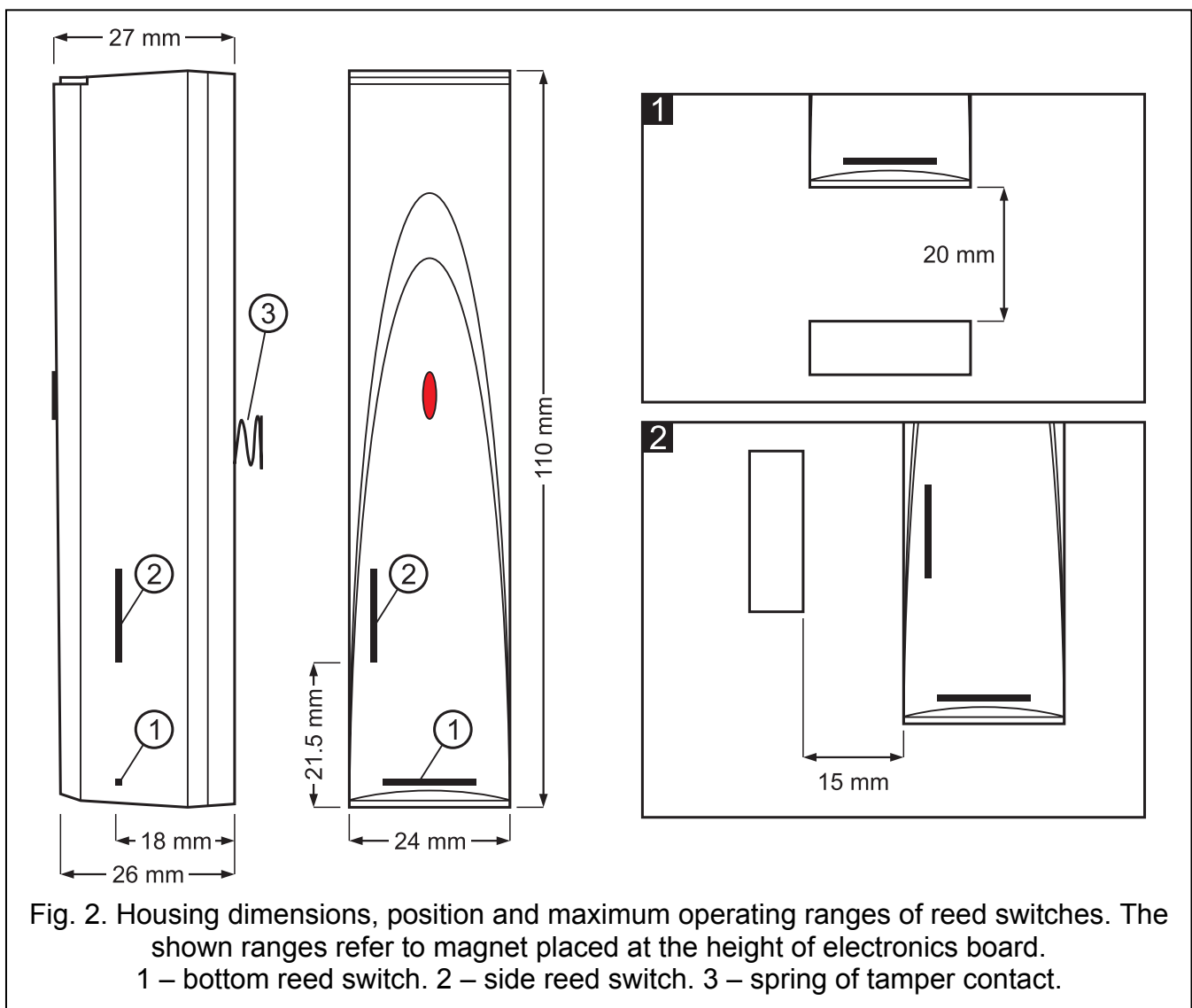
The magnetic contact is designed for indoor installation. The detector should be mounted on a fixed surface (e.g. window or door frame), and the magnet on a movable surface (e.g. window or door). Mounting the magnetic contact on ferromagnetic surfaces and/or near to

strong magnetic and electrical fields is not advisable, because it can result in malfunctioning of the device.

1. Open the housing.
2. Install the battery and add the magnetic contact to the wireless system (see the ACU-100 controller user manual, INTEGRA 128-WRL control panel installer manual or VERSA control panel installer manual). A label with 7-digit serial number that should be entered during registration of the device in the system is provided on the electronics board.
3. Fasten the detector temporarily at the place of its future installation.
4. Check the level of signal received from the magnetic contact. If necessary, select another place for installation.
5. Make a hole in the rear panel of the housing and pull the cables through it (the maximum permissible cable length is 3 meters). Screw the cables to the corresponding terminals on the electronics board.

Note: The input to which the detector is not connected must be shorted to ground.

6. Fix the rear panel of housing to the mounting surface.
7. Close the magnetic contact housing.
8. Fix the magnet, taking into account the maximum permissible distance from the reed switch (see Fig. 2).



9. Configure the magnetic contact:

- for the magnetic detector, define which of the two reed switches is to be active;
- for the input for roller shutter detector, program the pulse count (the number of pulses after which the input will be violated) and pulse validity duration (the time counted from the pulse occurrence, during which next pulses must occur for the input to become violated).

For detailed information regarding configuration, please refer to the ACU-100 controller user manual and the INTEGRA and VERSA control panel programming manuals.

10. Start the test mode and make sure that the magnetic contact responds appropriately to moving the magnet back and that information on violation of the additional inputs is sent.
11. Exit the test mode. The magnetic contact is now ready for work.

12. Specifications

Operating frequency band	868.0 MHz ÷ 868.6 MHz
Radio communication range	up to 150 m (in open area)
Additional NC input sensitivity.....	312 ms
Power supply	lithium battery, CR123A 3 V
Battery life expectancy.....	approx. 3 years
Current consumption, standby	50 µA
Current consumption, maximum	16 mA
Security grade according to EN50131-2-6	Grade 2
Environmental class according to EN50130-5	II
Operating temperature range.....	-10 °C ...+55 °C
Maximum humidity	93±3%
Complied with standards.....	EN 50130-4, EN 50130-5, EN 50131-1, EN 50131-2-6, EN 50131-5-3
Housing dimensions	24 x 110 x 27 mm
Weight.....	56 g



Always use the CR123A 3V lithium batteries.

Be particularly careful when replacing the battery. If inappropriately done, replacement of the battery may lead to a risk of explosion. The Manufacturer bears no responsibility for any consequences of incorrect replacement of the battery.

The used batteries must not be discarded, but should be disposed of in accordance with the existing rules for environment protection.

DECLARATION OF CONFORMITY

CE1471

Product:

AMD-102 – Wireless magnetic contact

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tel. (+48) 58 320-94-00
fax. (+48) 58 320-94-01**Product description:** Magnetic contact intended for use with ABAX wireless alarm system components with additional analyzed input for connecting external roller shutter detector, operating at 868MHz. Device is intended for installation in intruder alarm systems.**The product is in conformity with the following EU Directives:**

R&TTE 1999/5/EC

The product meets the requirements of harmonized standards:

ETSI EN 300 220-1: v.2.1.1; ETSI EN 300 220-2: v.2.1.2

ETSI EN 301 489-1: v.1.6.1.; EN 301 489-3: v.1.4.1

EN60950-1:2006

Notified entity participating in the conformity assessment:

Identification No.: 1471

Gdańsk, Poland 2009-05-09

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The latest EC declaration of conformity and product approval certificates are available for downloading on website www.satel.plSATEL sp. z o.o.
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