

The AMD-101 wireless magnetic contact is designed for operation as part of the ABAX two-way wireless system. This manual applies to the device with electronics version 3.5 J or later which is supported by the ACU-100 controller with software version 1.06 or later and by the INTEGRA 128-WRL control panel.

The AMD-101 magnetic contact sends information on violation when the magnet is moved outside the reed switch operating range or the additional input terminals are opened. Two reed switches are used in the device and you can program by radio which of them is to be active.

Descriptions of Figure 1:

- 1 - additional NC type input terminals for connecting a hardwired detector. The signal from the additional input is passed independently, hence the AMD-101 magnetic contact occupies two positions on the list of supported devices. If the input is not used, its terminals should be shorted.
- 2 - tamper contact, which responds to opening the housing and pulling it off from the surface.
- 3 - CR123A 3 V lithium battery which ensures operation for approx. 3-year period. The device controls the battery status. When the voltage drops to 2.6 V, the "low battery" information is sent. The low battery signaling continues 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).

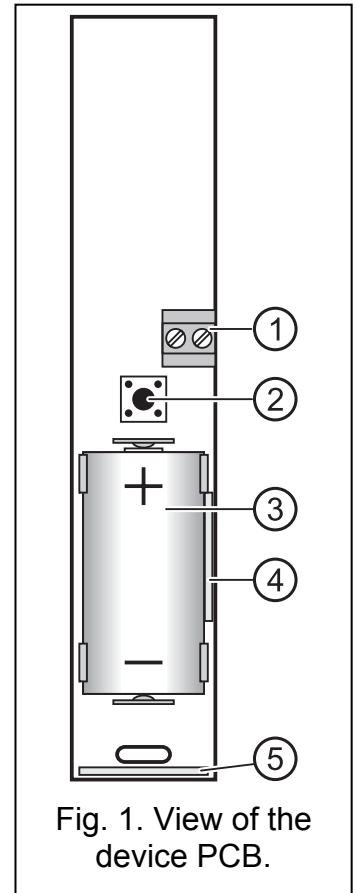


Fig. 1. View of the device PCB.

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

1. INSTALLATION

The device is designed for indoor installation. If the magnetic contact is used for the protection of window or door, the detector should be mounted on the window/door frame, and the magnet in/on the window sash or door leaf. Mounting the 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.

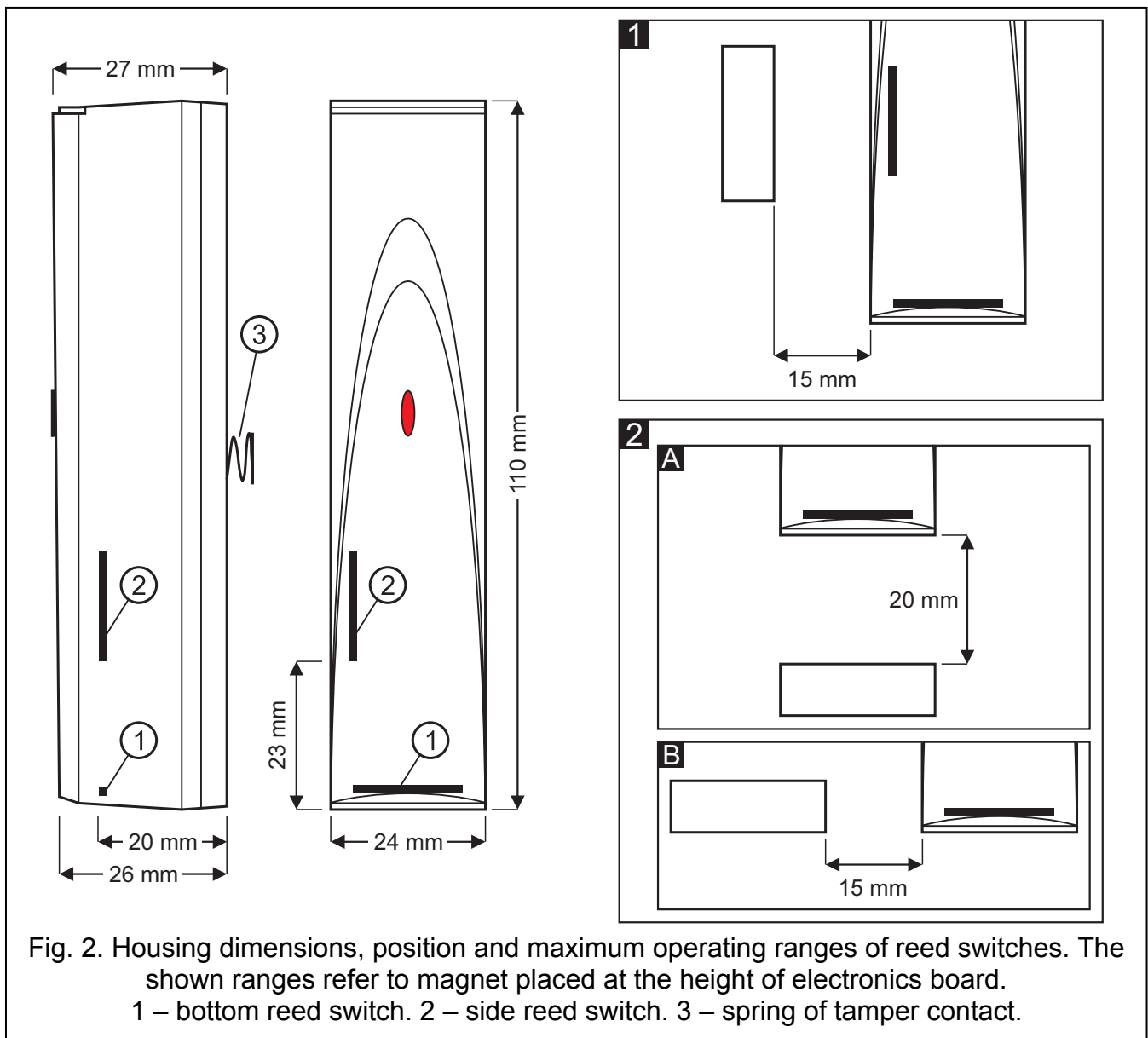


Before you mount the device permanently, check the level of signal received from the device by the ACU-100 controller or by the INTEGRA 128-WRL control panel and, if necessary, change the place of installation so that the location is optimal in terms of communication.

Install the battery inside the device 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.

1. Open the housing .
2. Install the battery and add the device to the wireless system (see the ACU-100 controller 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. If a hardwired detector is to be connected to the additional input terminals, make a hole in the rear panel of the housing and pull the cables through it (maximum permissible cable length being 3 meters). Screw the cables to the input terminals.
6. Fasten the housing rear panel to the mounting surface.
7. Close the magnetic contact housing.
8. Secure the magnet, taking into account the maximum permissible distance from the reed switch (see Fig. 2).



9. Configure the magnetic contact to suit your requirements. For information on configuration – see the ACU-100 controller manual and the INTEGRA and VERSA control panel programming manuals.
10. Start remotely the test mode and check that the magnetic contact responds appropriately to moving the magnet away, and that signal is being sent from the additional input.
11. Exit the test mode. The magnetic contact is now ready for work.

2. SPECIFICATIONS


Operating frequency band	868.0M Hz ÷ 868.6 MHz
Radio communication range	up to 150 m (in open area)
Additional input sensitivity	312 ms
Power supply	lithium battery CR123A 3V
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	24x110x27 mm
Weight.....	58 g



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.

Always use the CR123A 3V lithium batteries.

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

DECLARATION OF CONFORMITY		CE 1471
Product: AMD-101 – Wireless Magnetic Contact for ABAX System	Manufacturer: SATEL spółka z o.o. ul. Schuberta 79 80-172 Gdańsk, POLAND tel. (+48) 0-58 320-94-00 fax. (+48) 0-58 320-94-01	
Product description: Magnetic contact intended for use with ABAX wireless alarm system components with independent input for connecting additional detector, operating in the 868.0MHz – 868.6MHz frequency band. Device is intended for installation in intruder alarm systems.		
This product conforms to the following EU Directives: R&TTE 1999/5/EC		
This product meets requirements of the harmonized standards: R&TTE: ETSI EN 300 220-1: v.1.3.1; ETSI EN 300 220-3: v.1.1.1; EMC: ETSI EN 301 489-1: v.1.5.1.; EN 301 489-3: v.1.4.1 Safety: EN60950-1:2004		
Notified body taking part in conformity evaluation: Identification No.: 1471		
Gdańsk, Poland 2005-07-15	Head of Test Laboratory: Michał Konarski	
The latest EC declaration of conformity and product approval certificates are available for downloading on website www.satel.pl		

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