ritm
SECURITY SOLUTIONS

EAC

Radio channel panic button

Contact RC-1L ver. 2

868 MHz

Data sheet

Device ID

1. Overview

The radio channel panic button Contact RC-1L ver. 2 (hereinafter referred to as panic button) is designed for generating an alarm event on button pressing and transmitting it to the radio channel receiver RDK-L 868 MHz.

Contact RC-1L has terminals for connecting a remote wired panic button.

The button features low power usage and up to 2 years of period of single battery operation.

When the radio channel receiver RDK-L receives the alarm event, the state of the appropriate receiver output changes.

2. Manufacturer

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3. Package content

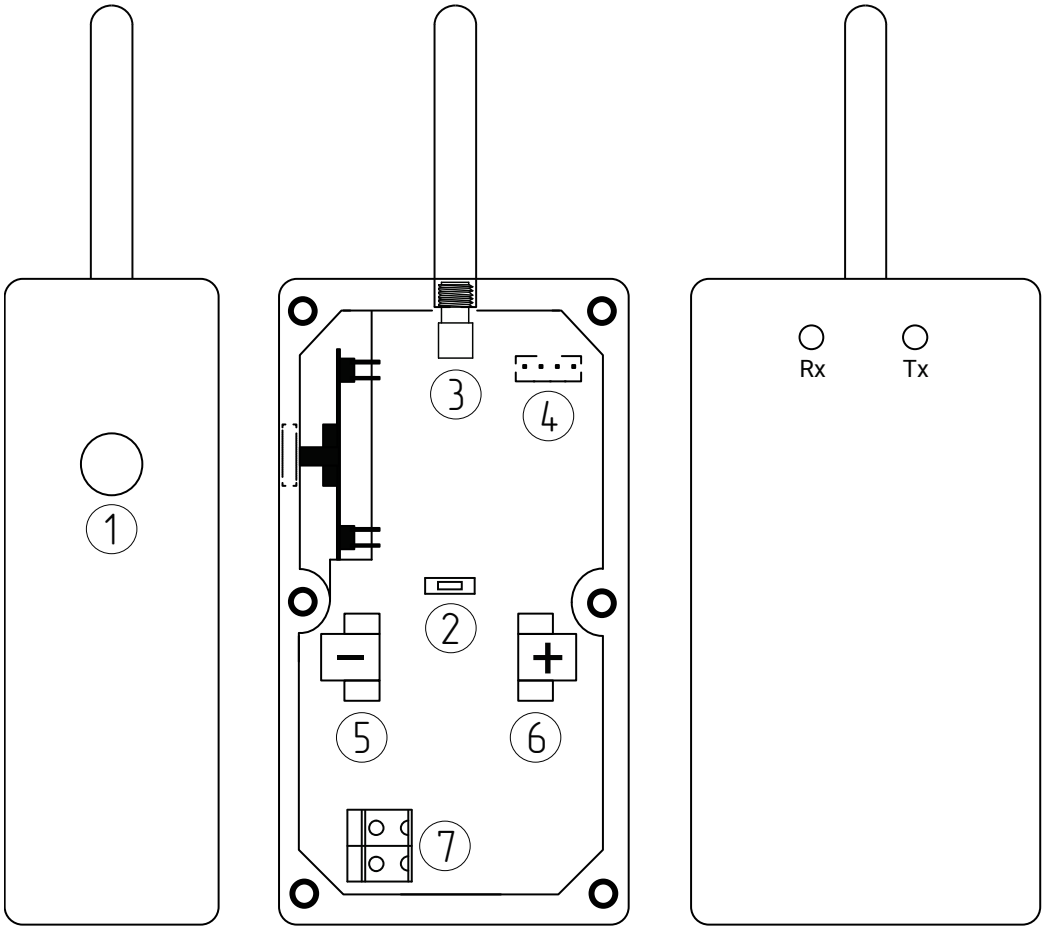
The radio channel panic button Contact RC-1L ver. 2	1 pc.
868 MHz antenna	1 pc.
Battery CR123A	1 pc.
Fixing set	1
Data sheet	1 pc.
Package	1 pc.

4. Technical specifications

Parameter		Value
Frequency range, MHz		868.7-869.2
Maximum receiver emitting power, mW		25
Alarm message delivery acknowledgement		+
Maximum range of stable communication, km, up to	Restrained urban conditions	1
	Medium urban conditions	2
	Open territory	8
	Line-of-sight range	20
Period of singe battery operation, years[1]		2
Connected loops, pc.		1 pc. of dry contact type
Power supply voltage (lithium-type battery CR123A), V		3
Maximum useful current, mA, up to	Standby mode	0.025
	Event transmitting	60
Dimensions (without antenna), mm		25×50×81
Weight (without battery), g, up to		60
Operating temperature range without battery, °C		–40… +60
Operating temperature range with battery, °C		–20… +50

[1] Estimated operation time is shown in case of several alarm events per day. Operating time directly depends on event transmitting frequency as well as on temperature and signal reception quality. In case of sub-zero temperatures the operating time is essentially decreased.

5. Unit designation



Unit	Designation
1	Panic button.
2	Button for changing operating modes.
3	Connector for 868 MHz antenna installation.
4	Special cable connector for communication with PC USB1 or USB2. Used for updating version of the button software.
5, 6	Connectors for battery installing: • Connector **6:** for positive battery terminal connection; • Connector **5:** for negative battery terminal connection.
7	Terminals for connecting an additional panic button.

6. Visual indication

Indicator	State	Value
Rx+Tx	Blink one time	The button is added to the radio system of the radio channel receiver.
	Flash for 5 seconds	The radio system is not found
Rx	Blinks one time	The transmitted alarm is received by the radio channel receiver.
Tx	Blinks up to 5 times[2] at 1 time per 2 seconds	Failed to transmit the alarm.
	Blinks two times every 6 seconds	Battery is discharged.

[2] The panic button tries to transmit an alarm five successive times.

7. Button designation

Button	Pressing duration time	Operation mode
1	At least 2 seconds	Alarm transmitting.
2	At least 2 seconds	Mode of adding the radio channel receiver “RDK-L” to the radio system.

8. Setting-up procedures

1. Open the enclosure.
2. If necessary, connect an additional wired panic button to the terminals **7**.
3. Install the battery CR123A to the connectors **5, 6**.
4. Switch the radio channel receiver “RDK-L” intended to be used with the button to the mode of adding devices (see the receiver operating manual).
5. Switch the panic button to the mode for adding to the receiver radio system (see section 8).
6. Press the build-in panic button **1** and ensure that the alarm is delivered to the receiver (see the section 7).

For more details about successful adding the button to the receiver radio system and on alarm transmission, use the radio channel receiver RDK-L configuration software.

Detailed information about interoperation with the radio channel receiver RDK-L see in the Receiver operating manual available on the official website www.ritm.ru/en.

9. Maintenance

On a regular basis but at least twice a year check safety of contacts and if necessary dress bonding pads.

Change battery as and when necessary.

10. Safety measures

All works related to installation, configuration and maintenance of the panic button should be performed in accordance with the Electrical installation code and by qualified personnel.

The radio channel panic button is a safe device, the maximum power supply voltage level is 3 V.

11. Transportation and storage

The panic button should be transported in a package, in closed vehicles. Storage areas should be free from current-conducting dust, acid and alkali fumes as well as active gases able to corrode isolation.

12. Manufacturer warranty

The manufacturer warrants conformity of the panic button to the specification requirements provided the transportation, storage, mounting and operation conditions are observed by the consumer.

Warranty operating life — 12 months from the date of commissioning, but no more than 18 months from the date of manufacture.

Warranty shelf life — 6 moths from the date of manufacture.

The manufacturer reserves the right to make changes, not deteriorated of panic button functionality without previous notice of consumers.

13. Reclamation details

In case of panic button failure or defect in the warranty period take a fault report stating the date of button manufacture and commissioning, nature of a defect.

Send the faulty panic button with the fault report to the purchase address or to the manufacturer.

Notes

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