

Radio channel panic button

RBR1-L

868 MHz

Data sheet

Device ID

1. Overview

The radio channel panic button RBR1-L (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.

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

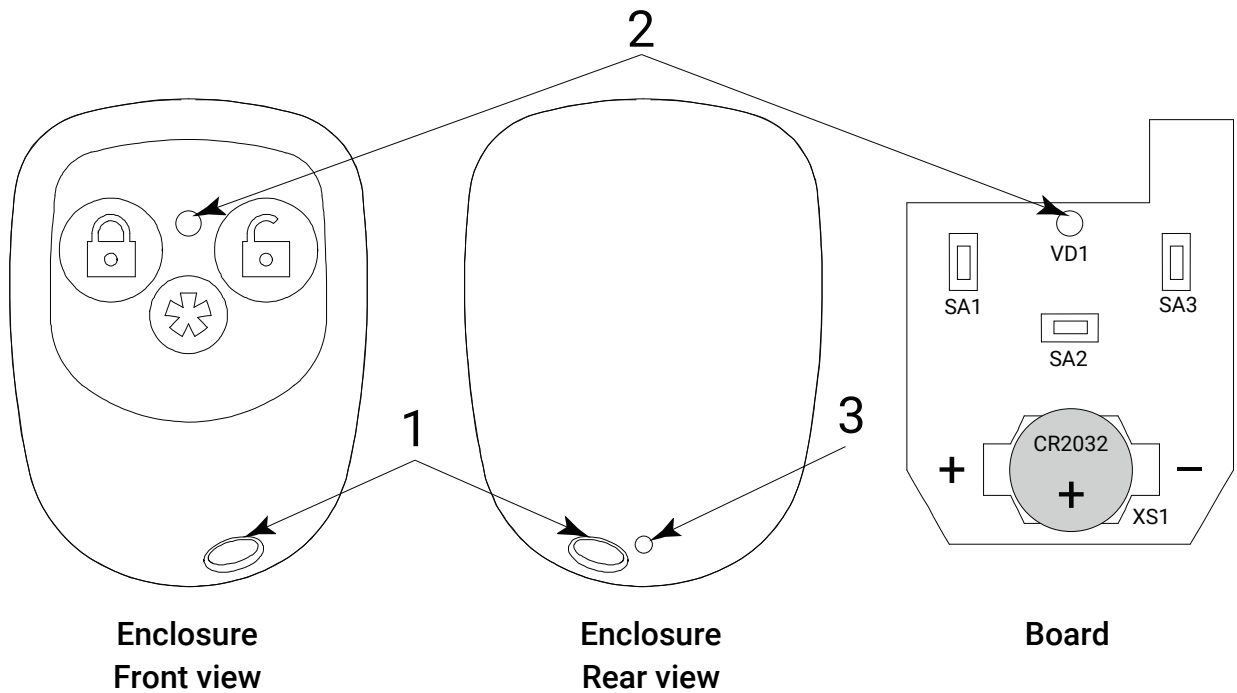
The radio channel panic button RBR1-L	1 pc.
Battery CR2032	1 pc.
Fixing set	1
Data sheet	1 pc.
Package	1 pc.




4. Technical specifications

Parameter		Value
Frequency range, MHz		868.7-869.2
Maximum receiver emitting power, mW		10
Alarm message delivery acknowledgement		+
Maximum range of stable communication, m, up to	Restrained urban conditions	300
	Medium urban conditions	500
	Open territory	2000
	Line-of-sight range	3000
Single battery operation, number of button pressings, minimum		300 ¹
Power supply voltage (battery CR2032), V		3
Average useful current, mA, up to	Standby mode	0.040
	Event transmitting	40
Dimensions, mm		60×41×14
Weight (without battery), g, up to		60
Operating temperature range without battery, °C		-30...+35
Operating temperature range with battery, °C		-20... +35

¹ In case of transmitting up to 2 events per hour. 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	Small strap fixing.
2	Operation mode indicator (VD1).
3	Screw hole for enclosure fixing.
	Panic button SA1.
	Panic button SA2.
	Panic button SA3.
XS1	Connector for battery CR2032 installing.







The command running if buttons SA1, SA2 and SA3 are pressed, is set in the section "Outputs" of the radio channel receiver "RDK-L" configuration software.

6. Visual indication

Indicator color	State	Value
Yellow	Blinks one time	The button is added to the radio system of the radio channel receiver.
	Flash for 2 seconds	The radio system is not found
Green	Blinks one time	The transmitted alarm is received by the radio channel receiver.
Red	Blinks up to 2 times ²	Alarm transmitting
	Blinks 2 times every 6 seconds	Battery is discharged.

² The panic button tries to transmit an alarm two successive times.

7. Button designation

Button	Pressing	Operating mode
 or  or 	At least 2 seconds	Alarm transmitting.
	At least 2 seconds	Mode for adding the radio channel receiver "RDK-L" to the radio system.

8. Setting-up procedures

1. Open the enclosure.
2. Install the battery CR2032 into the connector **XS1**. Battery installation is shown on the picture (see section 6).
3. Switch the radio channel receiver "RDK-L" intended to be used with the panic button to the mode for adding devices. (see the receiver operating manual).
4. Switch the panic button to the mode for adding the receiver to radio system (see section 8).
5. After adding the receiver to the radio system press any button (SA1, SA2 or SA3) and ensure that the alarm is delivered to the receiver (see section 7).

For more details on successful adding of the panic 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 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 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 months from the date of manufacture.

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

13. Reclamation details

In case of 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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