

ritm

Wi-Fi Relay

3 channels

1. General Information

The Wi-Fi Relay, 3 channels (hereinafter referred to as relay) is designed for connection to the “Ritm” company security devices using Wi-Fi network (office, home, etc.) and control actuation devices.

With relevant configuration the relay allows to receive signals from a security device located in the same Wi-Fi network and to transfer them to the connected actuation devices.

2. Manufacturer

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3. Package Contents

Wi-Fi Relay, 3 channels	1 pc
Power adapter, 9V	1 pc
Stands	4 pcs
Data sheet	1 pc
Package	1 kit

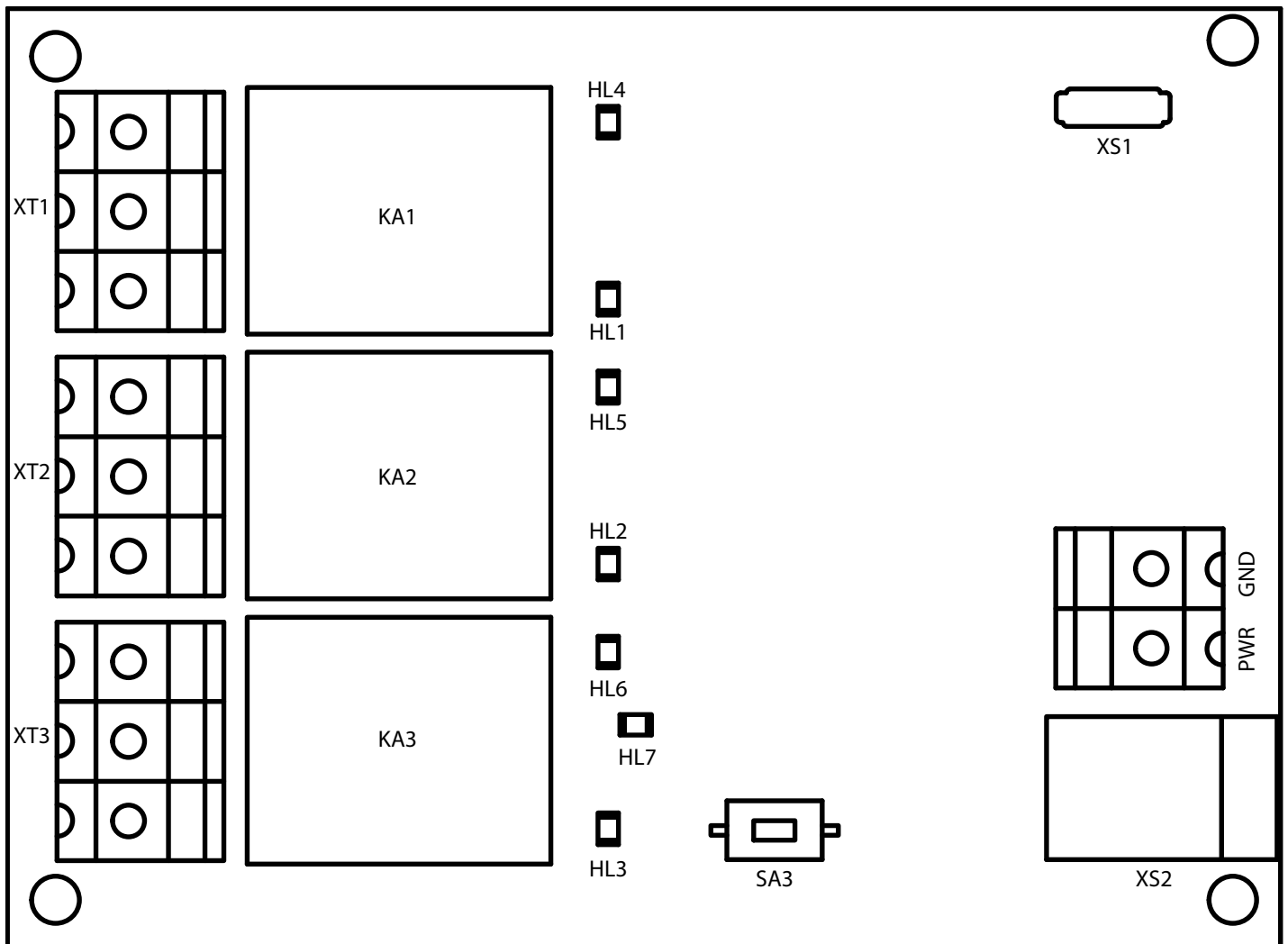
4. Technical Specifications

Parameter	Value
Communication channel for security devices and PC	IEEE 802.11 (Wi-Fi)
Data encryption in communication channel	WPA2
Frequency range, GHz	2.412–2.484
Configuration using PC	+
Outputs for actuation device connection, pc	3
Maximum resistance between pins of each Relay output, MΩ	100
Action time for closure/opening of each Relay output, ms	10/5
Maximum number of switchings of each Relay output, switchings/min	300
Life cycle of each Relay output, switchings	10 ⁷
External power source voltage, V	12±2
Maximum load, A	10
Maximum load, V	30 DC; 250 AC
Average current consumption on adapter power supply, μA	60
Current consumption (standby mode, outputs are off), mA	45
Maximum current consumption (all outputs are on), mA	125
Dimensions, mm	59×80×17
Weight, g	60
Operating temperature range, °C	+5... +50



Invalid the device operation in conditions of condensation!

5. Designation of Elements



Element	Designation
XS1	MicroUSB connector for PC connection.
XS2	Connector for power adapter (supplied).
SA3	“Test” button.
GND, PWR	Terminal for external power source: <ul style="list-style-type: none"> • GND – negative terminal for external power source; • PWR – positive terminal for external power source.
HL1, HL2, HL3, HL4, HL5, HL6	Relay operation indicators.
HL7	Access point reset settings indicator.
XT1, XT2, XT3	Terminals for actuation devices.

6. Visual indication¹

Indicator	State	Value
HL1, HL2, HL3	On	The appropriate output is open.
	Off	The appropriate output is closed.
HL4, HL5, HL6	On	The appropriate output is closed.
	Off	The appropriate output is open.
HL7	On	"Test" button is pressed for 3-6 sec.
	Blinking	"Test" button is pressed for 10-12 sec. Resetting settings of access point.

7. "Test" button

Pressing time	Designation
Single quick pressing	Test mode. Indicators HL1, HL2, HL3, HL4, HL5, HL6 change their state for 5 sec.
Pressing for 3-6 sec	Not in use. HL7 indicator is on.
Pressing for 10-12 sec	Reset settings of access point (network name is reset to " Ritm<8 last digits of RITM-Link ID> "). HL7 indicator is blinking.

8. Getting Ready for Operation



Turn off the power during preparation work!

1. Connect power supply to GND and PWR terminals and power source to the XS2 connector.
2. Connect actuation devices to XT1, XT2, XT3 terminals. Note every connector has a symbolic notation showing the initial Relay position. Depending on the device connection way relay pins are normally closed or normally open. Therefore connect one cable to the central terminal and another - to the outermost one depending on the required operating procedure.
3. Turn on the security device used for the Relay.
4. Turn on the power source.
5. The open access point is created after supplying the power. It has the network name "**Ritm<last 8 digits of RITM-Link ID>**» and the following options: IP-address – 192.168.4.1 and connection port – 53462.
6. Connect to the created wireless network.
7. Using the universal configuration software Ritm.conf and Ritm Configure go to the relay configuration software².



To ensure correct operation the Relay and the used security device must be in the same subnet.

8. In the "Wi-Fi options" section of the "Network connection" tab connect to the available network allowing the relay to receive signals from the security device.

¹ Base indication shown. To configure indication operation use "Indication" section of the configuration software.

² <http://www.ritm.ru/documents/>

9. Connect the security device to the same network as the relay (the connection order see in the manuals of the security device).
10. Configure operation options of relay outputs and indication in the appropriate sections “Outputs” and “Indication”.
11. Select the required device in the “Control device” section of the relay configuration software.
12. When the configuration is completed the relay automatically receives signals from the security device and transfers them to the actuation devices connected to the relay outputs.

9. Control from your mobile device

Relay can be used without the control device. To do this, set the Ritm Control app on any mobile device with Android OS and control relay outputs remotely.³

10. Maintenance and Safety Measures

Personnel with the appropriate qualifications should carry out maintenance and settings of the relay.

11. Transportation and Storage

Transportation of the relay should be in the package and closed vehicles.

Storage and transport conditions must comply with storage conditions EU Directives: 2014/35/EU and 2014/30/EU. Storage premises should be free of current-conducting dust, acid and alkaline fumes, corrosive gases and gases harmful to insulation.

12. Manufacturer's Warranties

The manufacturer guarantees that the relay complies to requirements of the technical specifications, provided the client ensures compliances to conditions of transportation, storage, installation and operation.

Although **the warranty period is 12 months** from the commissioning date, it may not exceed 18 months from the production date.

The warranty storage period is 6 months from the production date.

The manufacturer reserves the right for modification of the device in any way that does not degrade its functional characteristics without prior notice.

13. Information on Claims

In case of a relay failure or defect during the warranty period, please fill in a malfunction report specifying the dates of issue and commissioning of the relay and nature of the defect and submit it to the manufacturer.

³ The app is available in Google Play. For sharing, the relay and the mobile device must be on the same subnet.

Notes

Notes