which the device is installed.

station of a private security company.

Functional Elements

2. Terminal blocks

3. Functional button

app.

 $\lambda J \lambda X$

Eng →

Search

WallSwitch User manual Updated April 3, 2020



WallSwitch operates only with the Ajax security system (it may not be used in any third-party security systems), by connecting via the protected Jeweller protocol to the hub. Communication range – up to 1,000 meters, absent any obstacles. Use scenarios to program actions of automation devices (Relay, WallSwitch or Socket) in response

to an alarm, pressing of the Button or by schedule. A scenario can be created remotely in the Ajax

How to create and configure a scenario in the Ajax security system

Buy power relay WallSwitch

The Ajax security system is self-sustaining, but the user can connect it to the central monitoring

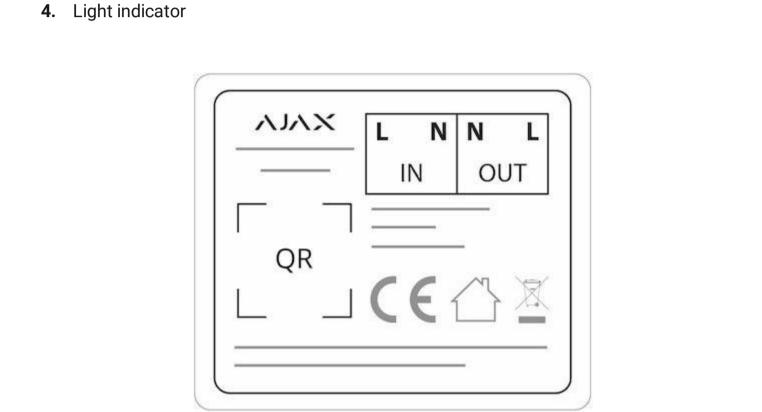
1. Antenna

L terminal — power supply phase terminal.

N terminal — power supply neutral terminal.

N terminal — connected device neutral output contact terminal.

L terminal — connected device phase output contact terminal.



Operating Principle

IN terminals:

OUT terminals:

4. Ensure that the hub is disarmed and does not start updates by checking its status in the mobile application. 5. Connect WallSwitch to the power supply and wait for 30 seconds.

Connecting to the hub

Before starting connection:

2. Go to the Ajax application.

network).

3. Select **Add** — the countdown will begin.

wireless network of the hub (at a single protected object).

device.

States

4. Press the WallSwitch functional button (or apply the load to the device no less than 20 W, e.g. by switching on an iron or electric kettle). For the detection and interfacing to occur, the device should be located within the coverage area of the

Request for connection to the hub is transmitted for a short time at the time of switching on the

application. Update of the detector statuses in the list depends on the device inquiry time set in

If the connection to the hub fails, wait for 30 seconds and retry the connection procedure.

The WallSwitch connected to the hub will appear in the list of devices of the hub in the

IN

OUT

1. Devices 2. WallSwitch **≺** Back WallSwitch III Jeweller Signal Strength Connection Online Routed Through ReX No Active No Voltage 229V Current OA

W Power

Parameter

Jeweller Signal Strength

Routed Through ReX

Electric energy consumed

Connection

Active

Voltage

Current

Power

Firmware

Device ID

Settings

1. Devices

2. WallSwitch

3. Settings 🌀

Setting

Functionality testing

Jeweller Signal Strength Test

paragraph on "Jeweller" settings in hub settings).

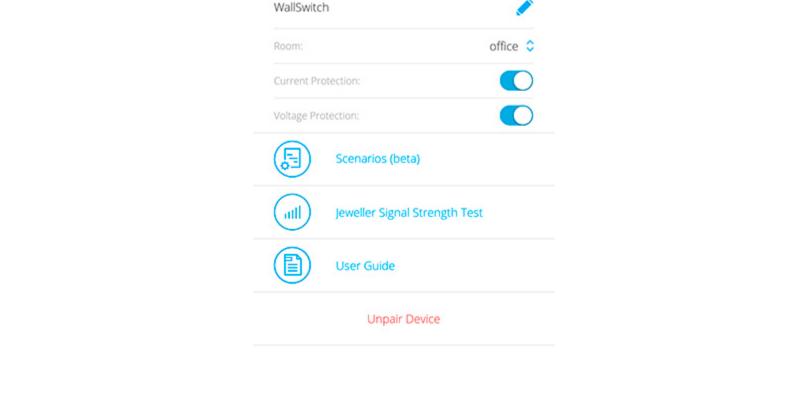
Installation of the Device

which the device is installed

other circuits powered by 230 V.

devices.

First field



WallSwitch Settings

If the device has a low or unstable signal strength, use a radio signal range extender ReX. **Installation process:** 1. De-energize the cable to which WallSwitch will be connected. 2. Connect the cable of the power system of the room to the WallSwitch terminals according to the following scheme: **AJAX**

3. Connect a socket to the WallSwitch using bundled connecting wires or an electrical

Do not connect more than 3 kW load to the WallSwitch. When connecting the load, strictly observe the

In installing the WallSwitch in the socket box, lead out the antenna to the outside and place it

the lower is the risk of screening (and impairment) of the radio signal.

under the plastic frame of the socket. The more distanced the antenna is from metal structures,

connection diagram since an incorrect connection may cause the device to malfunction and/or damage the

with cross-section of $1.5 - 2 \text{ mm}^2$.

property.

1 - recommended antenna location

range!

Do not install the relay:

Maintenance

Tech specs

Voltage protection

Maximum load current

Maximum current protection

Electricity meter function

Power consumption

parameters control

Power output (resistance load 230 V)

The power consumption of the device in the standby mode

The device does not require maintenance.

appliance using a cable with the sufficient cross-section. It's recommended to use cables

- **1.** Outside 2. In metal wiring boxes and electrical panels 3. In places with temperature and humidity exceeding the permissible limits 4. Closer than 1 m from the hub
- 868.0 868.6 MHz or 868.7 869.2 MHz depending on Frequency band the region of sale Compatibility Operates only with **Hub**, **Hub Plus**, **Hub 2** and **ReX** Maximum RF output power Up to 25 mW **GFSK** Modulation

Complete Set 1. WallSwitch **2.** Connecting wires – 2 pcs

Warranty for the "AJAX SYSTEMS MANUFACTURING" LIMITED LIABILITY COMPANY products is valid for 2 years after the purchase. If the device does not work correctly, you should first contact the support service—in half of the cases, technical issues can be solved remotely!

The full text of the warranty

- The WallSwitch input terminals are connected to the mains, and the output terminals are connected to the socket or electrical appliance/electrical system of the room. WallSwitch closes/opens the electric circuit, controlling the power supply by the command of the security system user through the Ajax app. The state of WallSwitch contacts can be switched manually: by holding the function button for 2 seconds. To make WallSwitch react to alarm or schedule automatically, you can configure a scenario. WallSwitch is furnished with a protection system against voltage variation beyond the range of 184V - 253V or overcurrent protection above 13A. In this case, the power supply is interrupted, resuming after normalization of the voltage and current values. The maximum resistive load on the relay is 3 kW. You may view the consumed power of the electrical appliances connected via WallSwitch through the application. There is a consumed electricity meter in place.
 - 2. Name the device, scan/write manually the QR Code (located on the body and packaging), and select the location room. XALA

QR

Only users with administrative privileges can add the device to the hub.

How to connect the WallSwitch to the hub:

1. Select the **Add Device** option in the Ajax application.

1. Following the hub instruction recommendations, install the Ajax application on your

3. Switch on the hub and check the internet connection (via Ethernet cable and/or GSM

smartphone. Create an account, add the hub to the application, and create at least one

When switching on for the first time, the relay is in open status! After deleting WallSwitch from the system, the Ajax switch opens the relay!

the hub settings, with the default value - 36 seconds.

Ajax WallSwitch Firmware 4.55.0.0, Device ID 140F331F2

W Electric Energy Consumed

0 Watt

0kWh

Value

Signal strength between the hub and the relay

The current input voltage level of WallSwitch

State of the relay (turned on/off)

Current at the relay input

Current consumption in W

Device firmware version

Device identifier

Connection status between the hub and the relay

Displays the status of using the ReX range extender

The electric power consumed by the device connected to

Value

Device name, can be edited

the relay. The counter is reset when the relay loses the

power

Room Selecting the virtual room to which the device is assigned If active, power supply will be switched off if the strength of current exceeds 13 A, in the inactive state the threshold **Current protection** is 19,8 A (or 16 A, if continues for 5 seconds) If active, power supply will be switched off in case of a voltage surge beyond the range of 184 – 253 V, in the Voltage protection inactive state - 0 - 500 V Opens the menu for creating and configuring scenarios Scenarios Switches the device to the Jeweller signal strength test Jeweller Signal Strength Test mode Opens the WallSwitch User Manual **User Manual** Disconnects the relay from the hub and deletes its settings **Unpair Device** Indication The WallSwitch light indicator may light up green depending on the device status. The green LED of WallSwitch will blink intermittently if it is not assigned to the hub. When the functional button is pressed, the green LED lights up.

The Ajax security system allows conducting tests for checking the functionality of connected

The tests do not start straight away but within a period of 36 seconds when using the standard

WallSwitch should be only installed by a qualified electrician! Regardless of the type of the electrical circuit in

WallSwitch is designed for installation inside a socket box with the diameter 50 mm and more

and the depth no less than 70 mm. The relay can also be installed within extension cords and

Communication range with the hub absent any obstacles between the devices – up to 1,000

meters. Take account of this when choosing the location for WallSwitch.

settings. The test time start depends on the settings of the detector scanning period (the

In no case, do not shorten the antenna! Its length is optimal for operation within the used radio frequency

During installation and operation of WallSwitch, please adhere to general rules of electrical safety

It is expressly forbidden to disassemble the device. Do not use the device with damaged power cables.

when using electrical appliances, as well as the requirements of electrical safety regulations.

Actuating element Electromagnetic relay 200,000 switching-ons The service life of the relay 110 - 230 V AC ± 10% 50/60 Hz Supply voltage

13 A

Yes

IP20

Yes, 65°C

Up to 75%

30 g

39 x 33 x 18 mm

From 0°C to +64°C

Yes, 13 A

Up to 3 kW

Yes: current, voltage, consumed power

Up to 1,000 m (any obstacles absent)

Less than 1 W·h

For 230 V mains: max - 253 V, min - 184 V

For 110 V mains: max - 126 V, min - 77 V

Operating humidity Overall dimensions Weight

- Radio signal range Shell protection rating Operating temperature range Maximum temperature protection
- 3. User Manual Warranty
- **User Agreement** Technical support: support@ajax.systems
- Request extra help

@AjaxSystemsSupport_Bot

Send a request

Please fill the form and we will answer as soon as possible.

Get started

Security Comparison

Select set

How it works

Why Ajax

Ask a quick question

J +38 044 538 13 10

J +38 066 022 44 32

J +38 068 597 36 07

All ideas