

WallSwitch

Power relay to control electrical supply remotely

Remote power supply control

<p>Flood-prevention system</p> <p>Set the automatic water shut off in case the washing machine breaks or a pipe bursts. Control the water supply at the facility remotely or set up a schedule.</p>	<p>Automatic gates / barrier</p> <p>Control opening-closing via the app or using Button. No compromises in comfort and safety.</p>
<p>Lighting and electricity supply of a facility</p> <p>Set up automatic shutoff of lights and selected sockets when arming your home, saving on electricity and reducing the risk of a short circuit.</p>	<p>Site lighting</p> <p>Set up a schedule for the external lights and their automatic activation by security system alarm. Along with street sirens, this is an effective protection against non-professional burglars.</p>
<p>Trustworthy video surveillance</p> <p>Install a video surveillance system that does not compromise privacy — the cameras are powered only when the system is armed. And when the residents are at home, the cameras are de-energized.</p>	<p>Effect of presence</p> <p>Simulate human presence in a cottage or a summer house — by turning on the lights, TV, or music by schedule.</p>
<p>Underfloor heating</p> <p>Set your floor heating or electric heaters to run by schedule and save money. And, if necessary, turn the equipment on and off remotely through the app.</p>	<p>Smart plug</p> <p>Turn an ordinary socket into a smart device controlled via the app, wireless Button, and automation scenarios.</p>
<p>Irrigation system</p> <p>Create a schedule to automate sprinklers and control watering remotely through the app — even thousands of kilometers away.</p>	

Purpose

Safeguard in the power grid

The device connects directly to the 110 V/230 V source and closes/opens the circuit on command. The relay can handle loads of up to 3 kW, which is enough to connect a very power-hungry device. Thanks to WallSwitch, this feature of the device may become known — it displays power consumption in the Ajax app.

Protects devices against overcurrent and voltage surges	Operates in bistable or pulse modes	Allows controlling electricity consumption
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Installation

No extra effort

Connecting WallSwitch to the hub takes less than a minute — it's enough to scan a QR code with the Ajax app. The miniature relay (39×33×18 mm) is easy to place in a recessed wall plate, the body of an electrical appliance, or an electrical panel. A flexible external antenna ensures stable communication.

Always in touch

We developed the Jeweller radio protocol to ensure uninterrupted interaction of all security system devices. The radio protocol uses frames to synchronize device communication, authentication to prevent forgery, and encryption to protect against hacking.

Two-way communication at a distance of up to 1000 meters	5 ReX radio signal range extenders in the system
Command delivery in 0.15 s	Adjustable ping from 12 s

Smart security for home and business

Use automation scenarios so your security system not only reports threats but also actively counters them.

- Flood-prevention system
- Site lighting by alarm
- Power shutdown in case of fire
- Presence simulation

Tech specs

Classification	Radio channel relay unit
Device type	Wireless
Installation method	Into wall plate
Compatibility	Operates only with hub Ajax and ReX
Actuating element	Relay
Relay service life	200,000 switch-ons
Voltage protection	For 230 V mains: max — 264 V, min — 161 V For 110 V mains: max — 126 V, min — 77 V
Maximum load current	13 A
Maximum current protection	Yes (13 A)
Maximum temperature protection	>65°C in the wall plate
Permissible power	Resistive load at 230 V — up to 3 kW Resistive load at 110 V — up to 1.5 kW
Electric power meter function	Available
Energy consumption parameter check	Current, voltage, power consumption
Alarm signal delivery time	0.15 s
Power supply	110–230 V±10% 50/60 Hz
Operation modes	<ul style="list-style-type: none"> • Impulse (firmware version 5.54.1.0 or higher. Manufacture date from March 5, 2020) • Bistable
Contact state (firmware version 5.54.1.0 or higher)	<ul style="list-style-type: none"> • Normally open • Normally closed
Adjustable pulse duration (firmware version 5.54.1.0 or higher)	0.5 – 255 sec
Jeweller radio technology	<p>Communication range with central unit — up to 1,000 m in an open space</p> <p>Two-way communication between devices</p> <p>Operating frequencies — 868.0 - 868.6 MHz</p> <p>Self-adjusting RF output power — up to 25 mW</p> <p>Block encryption based on AES algorithm</p> <p>Detector scanning period — 12 - 300 s</p>
Operating temperature range	0°C to +64°C
Permissible humidity	Up to 75%

Protection class of body	IP20
Anti-sabotage	Protection against fraud Jamming detection
Remote setting and testing	+
Dimensions	39 × 33 × 18 mm
Weight	30 g
Warranty	Replacement and repair within 24 months of the date of sale.
Service life	10 years
Complete set	WallSwitch Installation set User's guide