

LightSwitch (Dimmer) Jeweller user manual

Updated March 18, 2025



LightSwitch (Dimmer) Jeweller is a smart touch light switch with an integrated dimming slider. It can be used to switch a lighting appliance on and off on the premises and adjust the brightness of the light.

The dimmer is a part of the LightSwitch series. The smart touch light switch can replace any mechanical or touch switch, with the series offering one-gang and two-gang regular, two-way, and crossover versions. Devices can be combined as a set with other Ajax smart switches and/or outlets* and installed horizontally or vertically into one Frame side by side.



Use the online [Ajax switches and outlets configurator](#) to assemble your custom set. Combine devices into a frame, pick the color, and download your configuration as PDF.

LightSwitch (Dimmer) Jeweller is installed without changing the electrical wiring at

the facility. The device does not require a neutral wire, operates only from the power phase, and features a standard European form factor (55).

LightSwitch operates as a part of the Ajax system, communicating with the hub using two secure protocols. The light switch uses Jeweller to transmit alarms and events, and Wings to update firmware. The communication range is up to 900 meters in an open space.



The list of compatible hubs and range extenders is [available here](#).

Buy LightSwitch (Dimmer) Jeweller

** Combinations with smart outlets are available only in a horizontal orientation.*

Design

LightSwitch is a prefabricated smart light switch. All switch components are purchased separately. Elements are connected mechanically without the need for tools. There are two LightSwitch formats in the Ajax product line: single and combined. Combined switches can be horizontal and vertical.

Ajax switches and outlets configurator

Single switch



A single LightSwitch (Dimmer) Jeweller is a prefabricated device that consists of two components:

- LightCore (Dimmer) Jeweller – dimmer core.
- SoloButton (Dimmer) – touch-sensitive panel for a single LightSwitch (Dimmer) Jeweller.

Combined switch



A combined switch consists of several **LightCore** relays or **LightCore (Dimmer)** dimmer cores and touch-sensitive panels installed into one Frame with the appropriate number of seats.

Dimmer cores

Plastic frames

Touch-sensitive panels



Side touch-sensitive panels are installed on the right and left or on the top and bottom sides of the frame, while central touch-sensitive panels are installed in the center. For example, two side panels and one central panel should be used for three switches in one frame.

Colors

The product line includes 8 colors of touch-sensitive panels: White, Fog, Grey, Graphite, Ivory, Oyster, Olive, and Black.



The RAL colors below are as close as an approximation of the actual color. However, they may slightly differ, so please only use them as a guide to the color choice.



Black
RAL 9005



Graphite
RAL 7024



Grey
RAL 7004



Fog
RAL 7047



Olive
RAL 7044



Oyster
RAL 9002



Ivory
RAL 1013



White
RAL 9003

In the [switch settings](#) in Ajax apps, the color of **LightSwitch** can be changed. The color in the app does not have to match the color of the installed panel.

A PRO or a user with admin rights can change the panel color anytime. For example, if the installer has replaced the touch-sensitive panel or a user wishes to set different colors for the switches in the app to distinguish them.

Functional elements

Dimmer core

LightCore (Dimmer) vertical Jeweller

Touch-sensitive panels

SoloButton (Dimmer)

CenterButton (Dimmer)

CenterButton (Dimmer) vertical

SideButton (Dimmer)

SideButton (Dimmer) vertical

Frames

Frames are available with 2 to 5 seats in horizontal and vertical orientations. These frames are used when installing multiple LightSwitch and/or Outlet devices* in a row.

** Combinations with smart outlets are available only in a horizontal orientation.*

Frame (2 seats)

Frame (2 seats) vertical

Frame (3 seats)

Frame (3 seats) vertical

Frame (4 seats)

Frame (4 seats) vertical

Frame (5 seats)

Frame (5 seats) vertical

Operating principle

LightSwitch (Dimmer) Jeweller is a smart touch light switch with an integrated dimming slider. It can control the lighting brightness in three ways: manually, through smartphone and PC apps, and using automation scenarios.

LightSwitch is installed without changing the electrical wiring at the facility. The device does not require a neutral wire and operates only from the power phase.

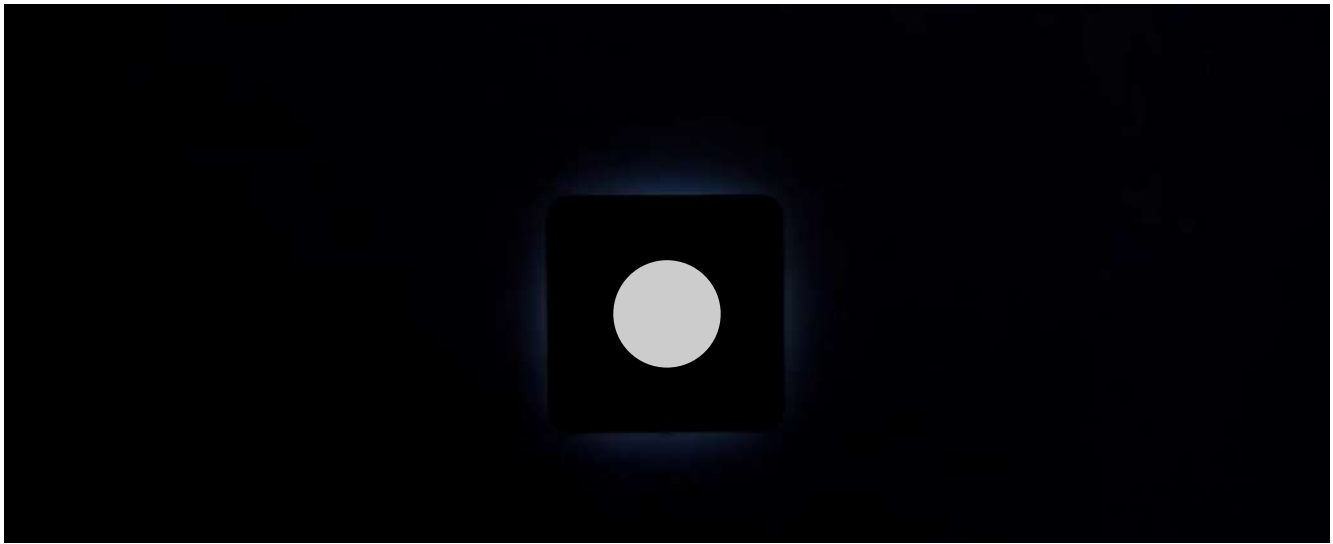


LightSwitch can be used without adding to a hub. In this mode, it operates like a regular touch switch.

LightSwitch (Dimmer) Jeweller can control lighting appliances with a power range of 8 to 150 VA. If, during the connection, the lamp compatible with LightSwitch (Dimmer) Jeweller flickers or the dimmer does not work, connect Bypass (Dimmer) [55]. The bypass is sold separately. Refer to the Installation section of this manual for more information.

The dimmer allows you to adjust the brightness of the lighting appliance remotely in Ajax apps or by pressing the touch-sensitive panel. To change the brightness, long press the dimming slider on the touch-sensitive panel. The zone of the

dimmer corresponds to the brightness level: the higher the zone, the higher the brightness will be set on the lighting appliance. The brightness control is smooth, allowing you to adjust the desired brightness level. The set parameters are saved when the device is turned off and reproduced the next time it is turned on.



0:00 / 0:10

The LightSwitch frame has an LED backlight. It is not too bright, so it will not disturb users even if the device is installed near a bed. If necessary, a PRO or a user with admin rights can disable the backlight in [Ajax apps](#).



The product line includes one-gang and two-gang regular, two-way, and crossover light switches:

• LightSwitch (1 gang) Jeweller

- [LightSwitch \(1-gang\) Jeweller](#)
- [LightSwitch \(2-gang\) Jeweller](#)
- [LightSwitch \(2-way\) Jeweller](#)
- [LightSwitch \(2-gang/2-way\) Jeweller](#)
- [LightSwitch \(Crossover\) Jeweller](#)

Devices combined in a frame can be installed horizontally and vertically. Vertical installation is supported only by switches, dimmers, touch-sensitive panels, and frames with the label “**vertical**” in the name.




Use the online [Ajax switches and outlets configurator](#) to assemble your custom set. Combine devices into a frame, pick the color, and download your configuration as PDF.

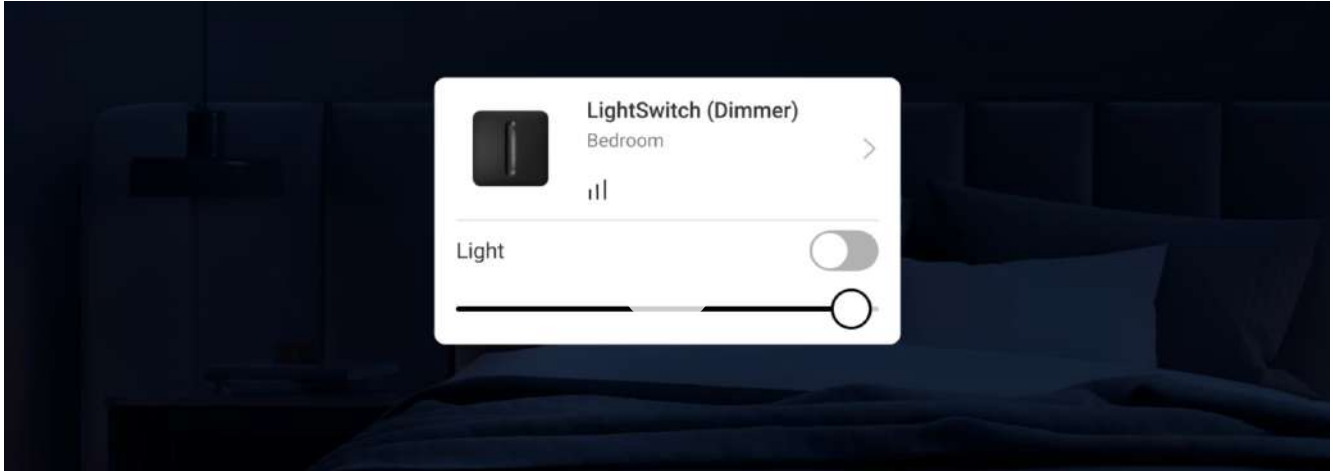
Remote control

Control via the app



LightSwitch can be used to control lighting manually and remotely through [Ajax apps](#).

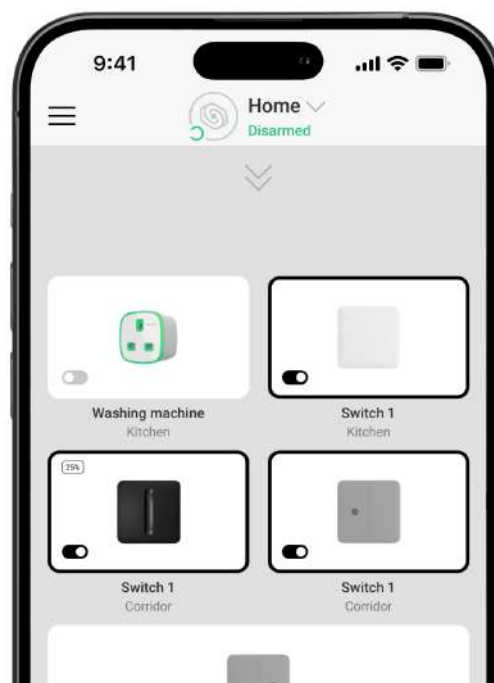


Open the Ajax app and click on the toggle in the **LightSwitch** field in the **Devices**  menu: the lighting will be turned off/on. This way, system users can, for example, switch on the lights in the room in advance. Move the slider to change the brightness of the lighting appliance.

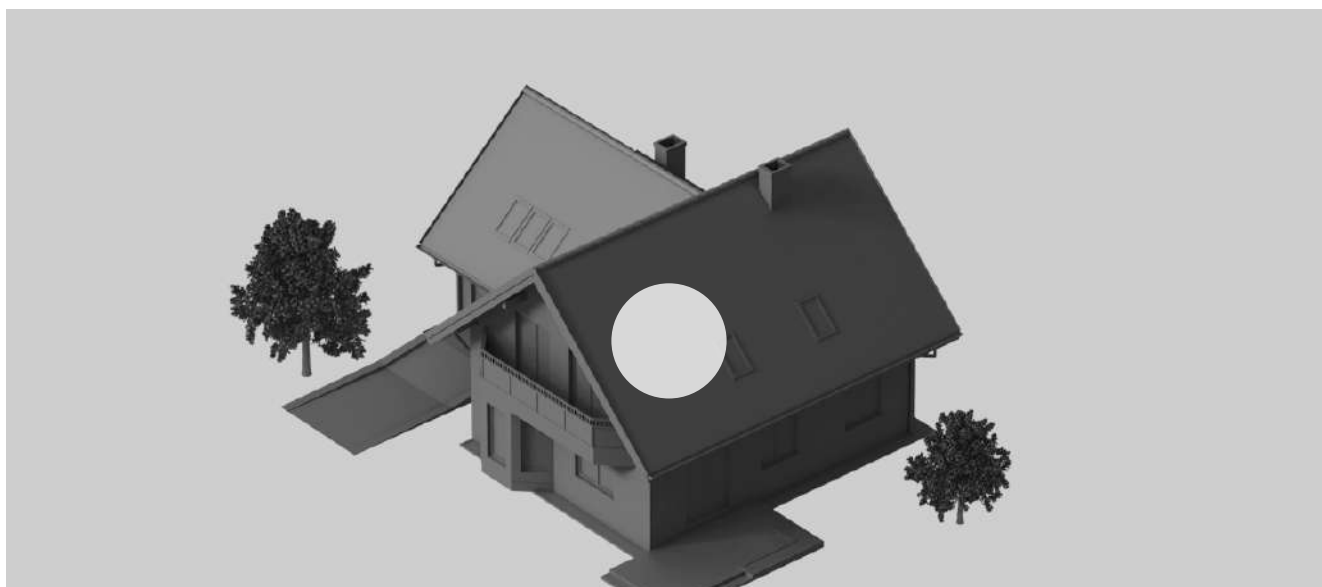


0:00 / 0:08

Lighting control is also available in the **Control**  menu. To do this, go to the **Control**  menu and swipe up. All control devices added to the hub will appear in the list. Click on the switch in the **LightSwitch** field, and the lighting will be switched on/off. Long tap on the dimmer icon to change the brightness of the lighting appliance.



Automation scenarios



0:00 / 0:08

Scenarios help automate security and reduce the number of routine actions. For example, set the lights to switch on by schedule or when disarming the security system.

LightSwitch supports the following types of scenarios:

- **By alarm**
- **By arming/disarming**
- **By schedule**
- **By pressing Button/Button S**
- **By temperature**
- **By humidity**
- **By CO₂ concentration**
- **By pressing another LightSwitch**



Scenarios by humidity and CO₂ concentration are available when [LifeQuality](#) is added to the system.



The system does not allow creating sequences of scenarios when the execution of one scenario activates the following one. It prevents accidental endless looping of such scenarios.

More about scenarios

Operation modes

LightSwitch can operate in one of two modes: bistable or pulse. The operating mode is set by a PRO or a user with admin rights in the device settings in Ajax apps.

By default, LightSwitch operates in bistable mode, which means the device switches on/off when controlling the lighting.

In pulse mode, the lighting can be switched on for the required time: from 10 seconds to 2 hours. This mode is useful, for example, if a user needs to switch on the lighting in the corridor for 5 minutes when disarming the security system.

Types of electrical protection of the switch



LightSwitch (Dimmer) Jeweller has two independent types of protection: current and temperature.

Overcurrent protection is provided by the fast-blow 3.15 A fuse installed inside the device. The device also has overcurrent protection at the software level: if the

current exceeds 0.75 A, LightSwitch (Dimmer) Jeweller turns off the power and sends a notification to Ajax apps.

Temperature protection triggers if the temperature of the switch exceeds +60 °C. If this protection triggers, LightSwitch turns off the power and sends a notification to Ajax apps. The power supply is restored automatically when the temperature of the switch returns to normal.

Types of supported lamps

Information on LightSwitch operation with different types of lamps is provided in the table.



If, during the connection, the lighting appliance compatible with LightSwitch (Dimmer) Jeweller flickers or the dimmer does not work, raise the minimum brightness threshold in the [device settings](#). Connect [Bypass \(Dimmer\) \[55\]](#) that is sold separately.

[Learn more](#)



LightSwitch (Dimmer) Jeweller compatibility with various types of lamps

Jeweller and Wings data transfer protocols

Jeweller and Wings are wireless data transfer protocols that provide two-way fast and reliable communication between the hub and devices. The light switch uses **Jeweller** to transmit alarms and events, and **Wings** to update the firmware.

[Learn more](#)

Firmware update

If a new firmware version for LightSwitch (Dimmer) Jeweller is available, the  icon appears in Ajax apps in the **Devices**  tab. You can launch the update in **states** or via the light switch **settings**. Follow the on-screen instructions to

successfully update the firmware.



Information on firmware updates and new versions is available only for light switches that use the [ReX 2](#) radio signal range extender and/or are added to such control panels:

- [Hub 2 \(2G\)](#);
- [Hub 2 \(4G\)](#);
- [Hub 2 Plus](#);
- [Superior Hub Hybrid \(2G\)](#);
- [Superior Hub Hybrid \(4G\)](#).

Users will receive information about the new firmware version if the light switch is connected to the hub via [ReX](#). However, the update is possible only after adding the light switch directly to the above control panels.

Firmware updates are not available for LightSwitch when operating via [Hub Plus](#).

Sending events to the monitoring station

The Ajax system can transmit alarms to both [PRO Desktop](#) monitoring app and the central monitoring station (CMS) in the formats of **SurGard (Contact ID)**, **SIA (DC-09)**, **ADEMCO 685**, and [other protocols](#).

Only events of lost connection between the switch and the hub (or range extender) are transmitted to the CMS. No other events are sent to third-party monitoring stations of security or monitoring companies. Use PRO Desktop to receive all switch events on the CMS.



Temperature protection triggering events are not sent to PRO Desktop as alarms.

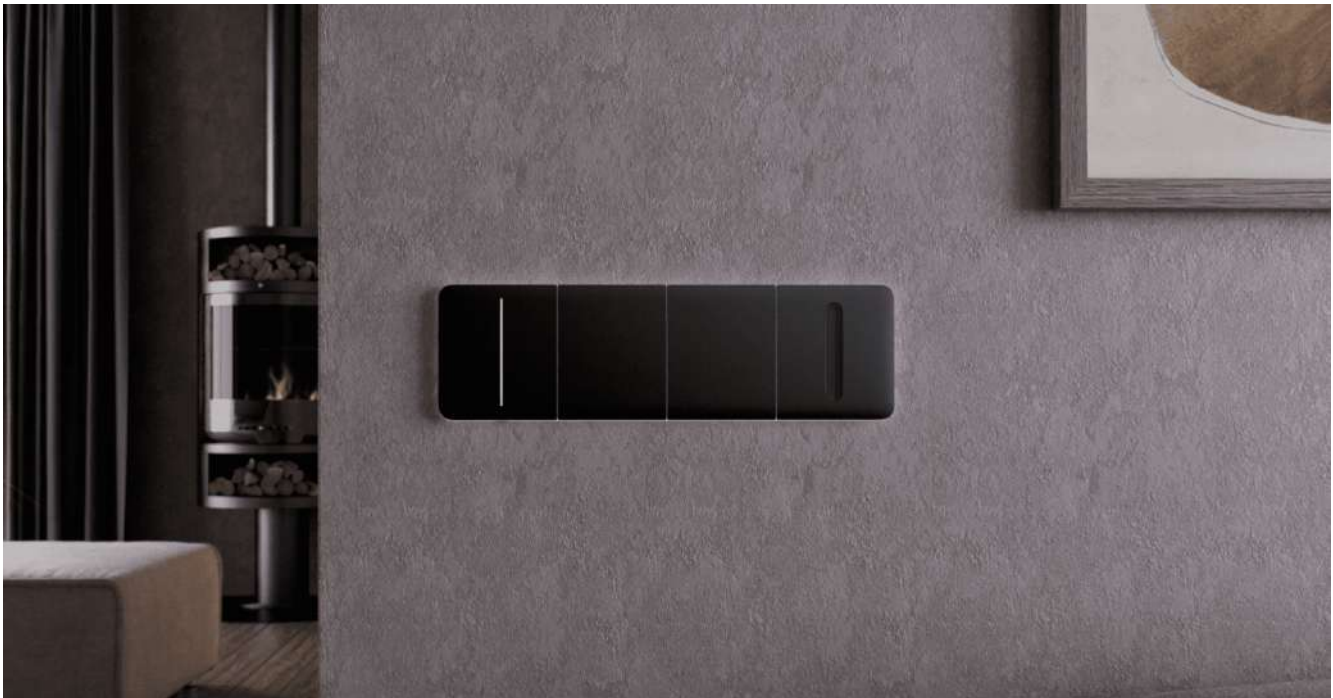
When an alarm is received, the operator at the security company's CMS knows what happened and precisely where to dispatch a rapid response team. The addressability of Ajax devices allows sending events to PRO Desktop or the CMS

addressability of Ajax devices allows sending events to PRO Desktop or the CMS, including the device type, its name, security group, and virtual room. Note that the list of transmitted parameters may vary depending on the CMS type and the selected communication protocol for it.



The ID and number of the device can be found in its states in the Ajax app.

Selecting the installation site




LightSwitch (Dimmer) Jeweller is designed to fit into standard sub-sockets of the European form factor (55). The device should be connected to the power phase wire for proper operation. Connecting the neutral wire is not required.



Do not connect the neutral wire to the LightSwitch (Dimmer) Jeweller terminals. This can damage the device.

Signal strength

The Jeweller and Wings signal strength is determined by the number of undelivered or corrupted data packages over a certain period of time. The icon  on the

Devices  tab indicates the signal strength:

- **three bars** – excellent signal strength;
- **two bars** – good signal strength;
- **one bar** – low signal strength, stable operation is not guaranteed;
- **crossed out icon** – no signal.



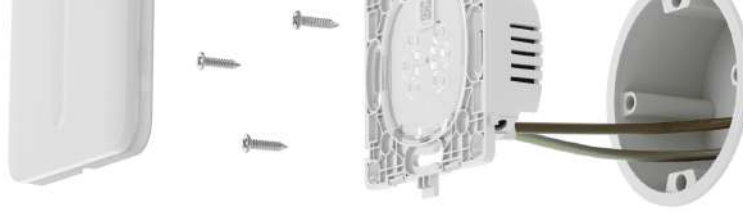
Check the Jeweller and Wings signal strength before the final installation. With a signal strength of one or zero bars, we do not guarantee stable operation of the device. Consider relocating the device, as adjusting its position even by 20 cm can significantly improve the signal strength. If the signal remains poor or unstable after relocation, consider using [ReX Jeweller](#) or [ReX 2 Jeweller](#) radio signal range extender.

Do not install the switch

- Outdoors. The device has an IP20 protection class. This may result in device failure or incorrect operation.
- On metal structures. This can lead to incorrect operation of the sensor: it may not respond to touch or give false triggerings.
- In rooms with humidity and temperature that are outside the permissible limits. This may cause a malfunction or incorrect operation of the device. The operating temperature range is from -10 to $+40$ °C. The permissible humidity is up to 75% without condensation.
- In places with low or unstable signal strength. This may result in a loss of communication between the hub (or range extender) and the switch.

Installation





Only a qualified electrician or installer should install LightSwitch (Dimmer) Jeweller. Do not turn on the power at the switches before installing the touch-sensitive panels. Also, do not try to register the device before installing the touch-sensitive panel, as it contains antennas needed to communicate with the hub.

Before installing the dimmer, ensure that the optimal location has been selected and that it complies with the requirements of this manual. When installing and operating the device, follow the general electrical safety rules for using electrical appliances and the requirements of electrical safety regulations.

For connection, use cables with a cross-section recommended by the manufacturer of the lighting device. **LightSwitch (Dimmer) Jeweller** cannot be connected to electric circuits with a load exceeding 150 VA. The device does not require a neutral wire and works only from the supply phase.

After installing and connecting the switch, be sure to run the functionality testing, and check the operation of the device: how it responds to touch, and whether it switches on/off the lights.

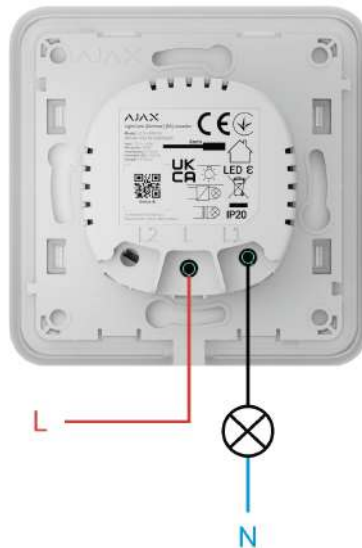


The installed touch-sensitive panel can be removed from LightSwitch with a flat screwdriver. To complete this, insert it into the hole from below (or from the left for vertical switches) and turn the screwdriver.

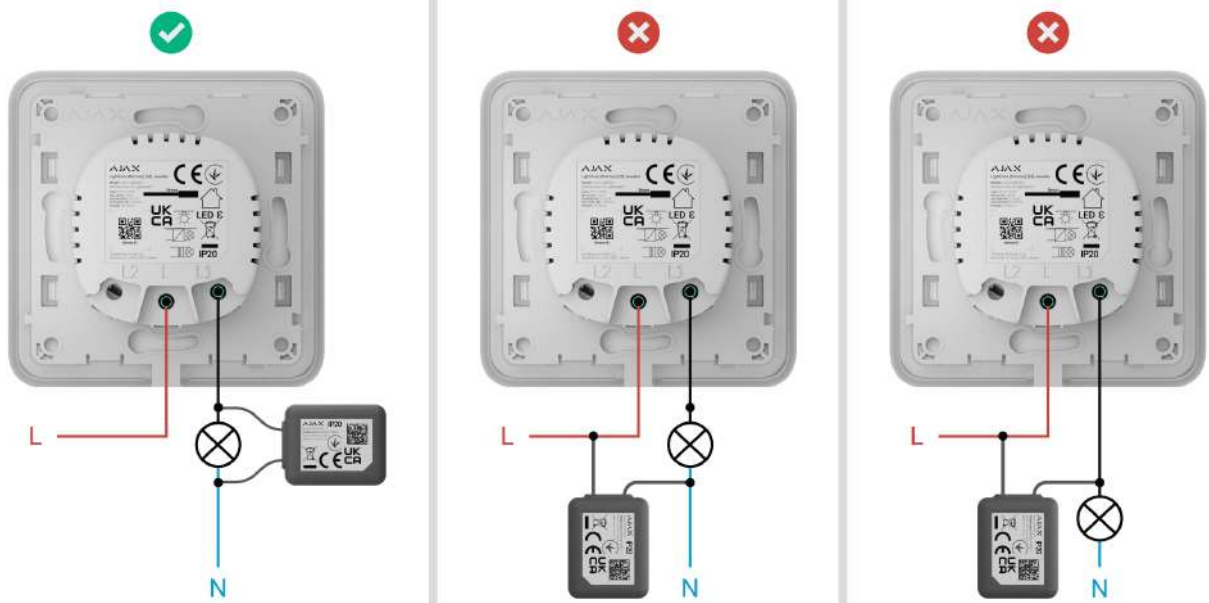
LightSwitch (Dimmer) Jeweller can control lighting appliances of 8 to 150 VA. If, during the connection, the lamp compatible with LightSwitch (Dimmer) Jeweller flickers or the dimmer does not work, connect Bypass (Dimmer) [55]. The bypass is sold separately.

LightSwitch (Dimmer) Jeweller installation

1. De-energize the power cable to which **LightCore (Dimmer)** will be connected.
2. Prepare the mounting boxes and remove the pre-installed switches, if any.
3. Connect the wires to **LightCore (Dimmer)** according to the diagram below:



1. Connect the power phase wire to **LightCore (Dimmer)** (terminal L).
2. Connect the power wire of the lighting appliance to **LightCore (Dimmer)** (terminal L1).
3. If needed, connect the bypass in parallel with the lighting appliance. [Bypass \(Dimmer\) \[55\]](#) is sold separately.





Do not connect the neutral wire to the LightSwitch (Dimmer) Jeweller terminals.
LightSwitch operates only from the power phase.

4. Install **LightCore (Dimmer)** in the mounting box.
5. Secure **LightCore (Dimmer)** with the bundled fasteners.
6. Install the remaining **LightCore (Dimmer)** dimmer cores or **LightCore** relays if necessary.
7. If installing multiple LightSwitch or Outlet devices*, mount the frame with the appropriate number of seats.
8. Install the necessary touch-sensitive panels.
9. Switch on the power.
10. Add switches to the hub using the Ajax app.

** Combinations with smart outlets are available only in a horizontal orientation.*

Adding to the system

Before adding a device

1. Install the Ajax app.
2. Log in to your account or create a new one.
3. Select a space or create a new one.

What is a space

How to create a space



The **space** functionality is available for apps of such versions or later:

- Ajax Security System 3.0 for iOS;
- Ajax Security System 3.0 for Android;
- Ajax PRO: Tool for Engineers 2.0 for iOS;
- Ajax PRO: Tool for Engineers 2.0 for Android;
- Ajax PRO Desktop 4.0 for macOS;
- Ajax PRO Desktop 4.0 for Windows.

4. Add at least one virtual room.

5. Add a compatible hub to the space. Ensure the hub is switched on and has internet access via Ethernet, Wi-Fi, and/or mobile network.

6. Ensure the space is disarmed, and the hub is not starting an update by checking statuses in the Ajax app.



Only a PRO or a space admin with the rights to configure the system can add a device to the hub.

Types of accounts and their rights

Pairing with the hub



Power on the switch and register this device only when the touch-sensitive panel is installed. The panel contains antennas necessary for communication with the hub.


LightSwitch should be within the coverage area of the hub's radio network to pair with the hub. To work via the radio signal range extender, pair LightSwitch with the

hub and then add it to the range extender. This can be done in the range extender settings. Detailed instructions can be found in the manual for the relevant range extender.

The hub and the switch operating at different frequencies are incompatible. The radio frequency range of the device may vary by region. We recommend buying and using Ajax devices in the same region. Please contact [Technical Support](#) for information on the operating frequency range.

LightSwitch only works with one hub. When paired with a new hub, the switch stops sending commands to the old one. However, the device is not automatically removed from the device list of the old hub. This must be done manually in the Ajax app.

To add LightSwitch to the hub:

1. [Install LightSwitch](#) if you haven't done so before.
2. Open the [Ajax app](#) and select the space where you want to add the device.
3. Go to the **Devices**  tab and click **Add Device**.
4. Enter the name of the device.
5. Scan the QR code of the device or enter the ID manually. QR code is located on the rear panel of LightCore, the front panel of LightCore, and the device packaging. The device ID can be found below the QR code.
6. Select a [room](#) and a group (if the [group mode](#) is enabled).
7. Click **Add**.



If the maximum number of devices is added to the hub, you will get a notification about exceeding the device limit when you try to add the switch in the Ajax app. The number of devices that can be added to the hub depends on the [control panel model](#) and the **Jeweller** (or **Jeweller/Fibra**) settings.

8. In a few seconds, LightSwitch will appear in the list of hub devices. Updating the device states in the list depends on the **Jeweller** (or **Jeweller/Fibra**) settings. The default value is 36 seconds.

If the connection fails, try again in 5 seconds. But this time, during the countdown, press and hold the switch button for at least 3 seconds.



If you press and hold the button of LightSwitch not paired with the hub for at least 3 seconds, the switch flashes green every second for one minute to inform you that it is not paired with the hub.



Functionality testing

After installation, test the operation of the switch: how it responds to touch and whether it switches on/off the light.

The Ajax system provides several tests to select the location of devices correctly. Tests do not start immediately. However, the waiting time does not exceed the duration of one “hub – device” ping interval. The default value is 36 seconds. The device ping interval can be changed in the **Jeweller** (or **Jeweller/Fibra**) menu in the hub settings.

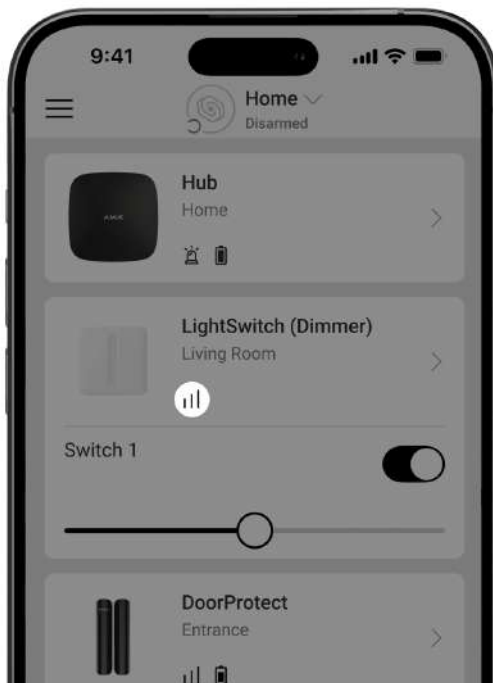
The [Jeweller Signal Strength Test](#) and [Wings Signal Strength Test](#) are available for LightSwitch. The test allows to determine the strength and stability of the signal at the installation site.


To run a test in the Ajax app:





1. Select the required space.
2. Go to the **Devices**  tab.
3. Select LightSwitch from the list.
4. Go to **Settings** .
5. Select a test:
 1. [Jeweller signal strength test](#).
 2. [Wings signal strength test](#).
6. Run and perform the test using the prompts in the app.




6. Run and perform the test using the prompts in the app.

Icons

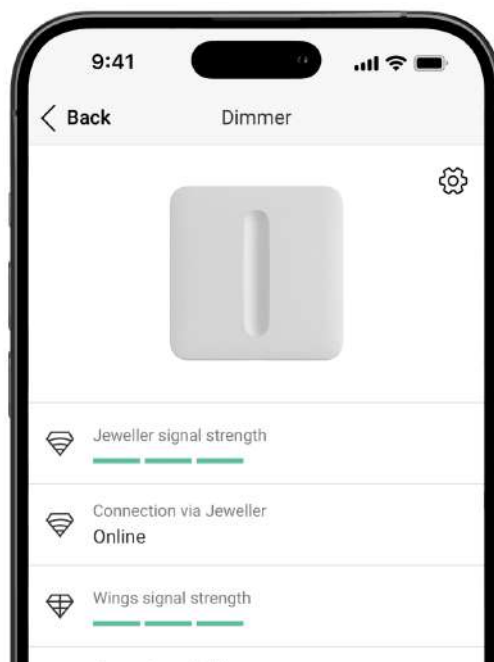


Icons in the Ajax app display some of LightSwitch states. Icons can be checked in the **Devices**  tab.


Icon	Meaning
	Jeweller and Wings signal strength displays the signal strength between the hub and the switch. Learn more
	The switch communicates with the hub via a radio signal range extender .
	A malfunction is detected. Learn more
	The power supply is insufficient. Learn more




	<p>Overcurrent protection was activated.</p> <p>Learn more</p>
	<p>Temperature protection was activated.</p> <p>Learn more</p>
	<p>The switch is permanently deactivated.</p> <p>Learn more</p>
<p>Offline</p>	<p>The device has lost connection with the hub or the hub has lost connection with the Ajax Cloud server.</p>
<p>Not transferred</p>	<p>The device has not been transferred to the new hub.</p> <p>Learn more</p>

States




The states in the Ajax app provide information about LightSwitch and its operating parameters. To view the states:

1. Open the Ajax app.
2. Select the required space.
3. Go to the **Devices**  tab.
4. Select **LightSwitch** in the list.

Parameter	Meaning
Data import	<p>Displays the error when transferring data to the new hub:</p> <ul style="list-style-type: none">• Failed – the device has not been transferred to the new hub. <p>Learn more</p>
Malfunction	<p>Clicking on  opens a list of switch malfunctions.</p> <p>The field is displayed only if a malfunction is detected.</p>
New firmware version available 	<p>Clicking on  opens the instructions for updating the firmware of the light switch.</p> <p>The field is displayed if a new firmware version is available, and the light switch has been connected to any compatible control panel except Hub Plus.</p> <p>Learn more</p>
Jeweller signal strength	<p>Signal strength between the switch and the hub (or range extender) via the Jeweller channel. Recommended values: 2–3 bars.</p> <p>Jeweller is a protocol for transmitting LightSwitch</p>

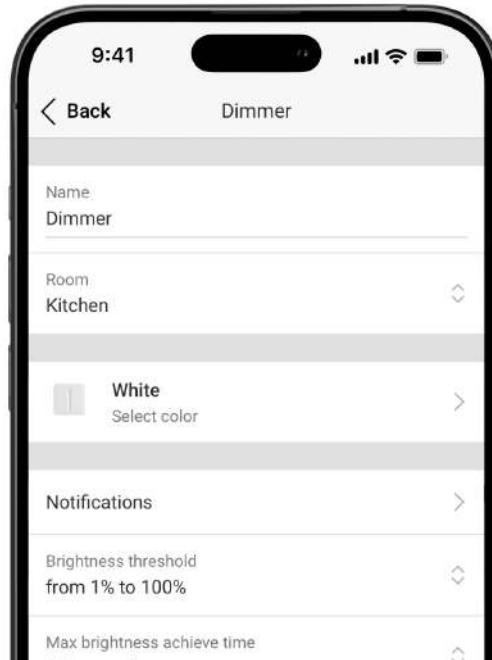
	<p>events and commands.</p> <p><u>Learn more</u></p>
<p>Connection via Jeweller</p>	<p>Connection status between the switch and the hub (or range extender):</p> <ul style="list-style-type: none"> • Online – the switch is connected to the hub (or range extender). • Offline – the switch has lost connection with the hub (or range extender). <u>Check the device.</u>
<p>Wings signal strength</p>	<p>Wings signal strength between the device and the hub (or the range extender). The recommended value is 2–3 bars.</p> <p>Wings is a protocol for updating firmware and transmitting the list of the groups, rooms, and other additional information.</p> <p>The field is not displayed if the light switch is connected to <u>Hub Plus.</u></p> <p><u>Learn more</u></p>
<p>Connection via Wings</p>	<p>Connection status on the Wings channel between the hub or the range extender and the device:</p> <ul style="list-style-type: none"> • Online – the device is connected to the hub or the range extender. Normal state. • Offline – the device is not connected to the hub or the range extender. Check the device connection. <p>The field is not displayed if the light switch is connected to <u>Hub Plus.</u></p> <p><u>Learn more</u></p>
	<p>The status of switch connection to the <u>radio</u></p>

Range extender name	<p><u>signal range extender</u>:</p> <ul style="list-style-type: none"> • Online – the switch is connected. • Offline – the switch is not connected. <u>Check the device</u>. <p>The field is displayed if the switch operates via a radio signal range extender.</p>
Button name	<p>The state of the switch buttons:</p> <ul style="list-style-type: none"> • On – the switch is on, and the light is on. • Off – the switch is off, and the light is off.
Operating time	<p>The time during which the lighting will be switched on. The field is displayed when the device operates in pulse mode (the Shutoff by Timer option is activated).</p>
Lock switch buttons	<p>The switch button lock status:</p> <ul style="list-style-type: none"> • Yes – the button/buttons are locked. The switch will not respond to the button/buttons touch. • No – the button/buttons are not locked. The switch will respond to the button/buttons touch.
Switch sensitivity	<p>The level of switch sensitivity:</p> <ul style="list-style-type: none"> • Minimum • Low • Standard • High • Maximum <p>Higher sensitivity ensures contactless operation,</p>



	while lower values might require slightly touching the switch button.
Backlight	<p>The status of the switch frame backlight:</p> <ul style="list-style-type: none"> • On – the LED frame is backlit when the switch is off. • Off – the LED frame is not backlit when the switch is off.
Recover state after power outage	<p>The status of the recovering switch state after a power outage:</p> <ul style="list-style-type: none"> • Yes – once the power is restored, the switch returns to the same state (turned on or off) as before the power outage. • No – once the power is restored, the switch returns to the turned-off state. <div style="border: 1px solid black; border-radius: 10px; padding: 10px; margin-top: 10px;">  Available for LightSwitch (Dimmer) Jeweller with firmware version 6.60.1.32 or later. </div>
Permanent deactivation	<p>The status of the device permanent deactivation setting:</p> <ul style="list-style-type: none"> • No – the device operates in normal mode and transmits all events. • Entirely – the device is completely excluded from system operation by the hub admin. It does not execute system commands or report alarms and other events. <p><u>Learn more</u></p>
Firmware	Device firmware version.
Device ID	LightSwitch ID. Also available on the QR code on

Device ID	the device enclosure and its package box.
Device No.	Number of the switch loop (zone).

Settings







To change the switch settings:

1. Open the Ajax app.
2. Select the required space.
3. Go to the **Devices**  tab.
4. Select **LightSwitch** in the list.
5. Go to **Settings** .
6. Set the required settings.
7. Click **Back** to save the new settings.

Settings	Meaning
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Name	<p>The LightSwitch name is displayed in SMS texts and event feed notifications.</p> <p>It can contain up to 12 Cyrillic characters or up to 24 Latin symbols.</p> <p>To change the switch name, click on the text field.</p>
Room	<p>Virtual room to which LightSwitch is assigned. Its name is displayed in SMS texts and event feed notifications.</p> <p>To change the room, click on the corresponding field.</p>
Select color	<p>Allows changing the color for the switch icon in the app. One of 8 colors can be chosen:</p> <ul style="list-style-type: none">• Black• White• Fog• Grey• Oyster• Olive• Graphite• Ivory <p>The list of colors corresponds to colors of the touch-sensitive panels.</p>
	<p>Allows configuring switch notifications in the app:</p> <ul style="list-style-type: none">• When connection lost/restored – enable the option to be notified in the app when the device goes offline and when the communication with the hub is restored. This option is enabled by default.

<p>Notifications</p>	<ul style="list-style-type: none"> • When turned on/off – enable the option to receive notifications in the app about switching on/off the light with the switch. • When scenario executed – enable the option to be notified in the app when the switch executes a scenario. <p>Note that turning on/off and scenario execution notifications are disabled by default.</p>
<p>Minimum brightness threshold</p>	<p>Allows setting the minimum brightness level from 1% to 90%.</p> <p>Raise the minimum brightness to prevent flickering of the switched appliance light.</p>
<p>Maximum brightness threshold</p>	<p>Allows setting the maximum brightness level from 11% to 100%.</p> <p>Limiting the maximum brightness prevents the light from blinding the user at the highest levels.</p>
<p>Max brightness achieve time</p>	<p>Set in the range of 0 to 2 seconds. The delay prevents the light from blinding the user at maximum brightness.</p>
<p>Backlight</p>	<p>Allows configuring the switch frame backlight. Activate this option to switch backlit when the lighting is off.</p>
<p>Lock switch buttons</p>	<p>Allows configuring the switch button lock:</p> <ul style="list-style-type: none"> • Don't lock • Lock dimming slider only • Lock all controls <p>Select the required option to make the switch unresponsive to touch. Users will be able to control the switch in the app only.</p>
	

<p>Calibration</p>	<div data-bbox="831 0 1448 151" style="border: 1px solid black; border-radius: 10px; padding: 5px;">  Available for LightSwitch (Dimmer) Jeweller with firmware version 6.60.1.35 or later. </div> <p>Allows configuring whether the device performs automatic calibration:</p> <ul style="list-style-type: none"> • Enabled – the device tests the full range of brightness when switched on for the first time after changing the light appliance (e.g., a light bulb) or a power outage. • Disabled – the device does not test the full range of brightness after changing the light appliance (e.g., a light bulb) or a power outage. <div data-bbox="831 871 1448 1136" style="border: 1px solid black; border-radius: 10px; padding: 5px;">  Installing new lamps without calibration may cause device malfunctions. Ensure you enable the calibration before connecting a new lamp. </div>
<p>Recover state after power outage</p>	<p>Allows configuring the recovering switch state after a power outage. When enabled, the switch returns to the same state (turned on or off) as before the power outage once the power is restored.</p> <div data-bbox="831 1570 1448 1755" style="border: 1px solid black; border-radius: 10px; padding: 5px;">  Available for LightSwitch (Dimmer) Jeweller with firmware version 6.60.1.32 or later. </div>
	<p>Allows adjusting the switch sensitivity:</p> <ul style="list-style-type: none"> • Minimum • Low

Switch sensitivity	<ul style="list-style-type: none"> • Standard (set by default) • High • Maximum <p>Higher sensitivity ensures contactless operation, while lower values might require slightly touching the switch button.</p>
Button name	To change the name, click on the text field.
Shutoff by timer	Allows deactivating the switch after a set time. If this option is enabled, you need to set an Operating time : from 10 seconds to 2 hours.
Operating time	<p>The time during which the device will be switched on. The field is displayed when the device is operating in pulse mode (the Shutoff by timer option is activated).</p> <p>Sets up from 10 seconds to 2 hours.</p>
Scenarios	<p>Opens the menu for creating and configuring automation scenarios.</p> <p>Use scenarios to automate security, for routine activities, and to improve comfort. For example, to switch on the lighting according to the schedule or switch it off when the system is armed.</p> <p><u>Learn more</u></p>
Firmware update	<p>Switches the device to the firmware update mode if a new version is available.</p> <p>The field is not displayed if the light switch is connected to <u>Hub Plus</u>.</p> <p><u>Learn more</u></p>
	Starts testing the Jeweller signal strength between the switch and the hub (or range

Jeweller signal strength test	<p>extender).</p> <p>The test allows checking the Jeweller signal strength and the stability of the connection between the switch and the hub (or range extender) to select the optimal installation site.</p> <p><u>Learn more</u></p>
Wings signal strength test	<p>Switches the device to the Wings signal strength test mode.</p> <p>The test allows checking the Wings signal strength and the stability of the connection between the switch and the hub (or range extender) to select the optimal installation site.</p> <p><u>Learn more</u></p>
User guide	<p>Opens the switch user manual in the Ajax app.</p>
Permanent deactivation	<p>Allows deactivating the device without removing it from the system.</p> <p>Two options are available:</p> <ul style="list-style-type: none"> • No – the device responds to commands, executes scenarios, and transmits all events. • Entirely – the switch does not respond to commands in the app, does not execute scenarios or report events, but responds to touch. <p>LightSwitch will retain its state at the time of deactivation: on/off.</p> <p><u>Learn more</u></p>
Delete device	<p>Disconnects the device from the hub and deletes its settings.</p>



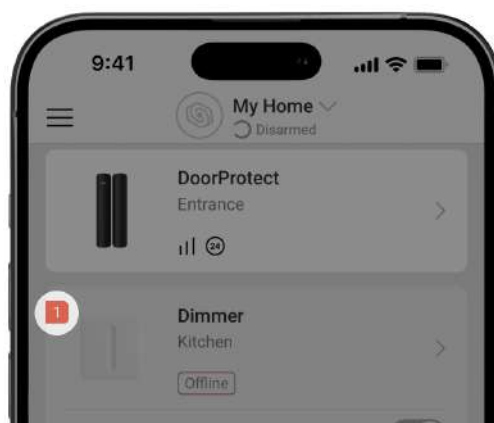
LightSwitch has a backlight that makes the switch visible in the dark. If the lighting is off, the device frame is backlit; if the lighting is on, the frame is not backlit. The backlight is not bright, so it will not disturb users even if the device is installed near a bed. The backlight can be turned off in the Ajax app if necessary.

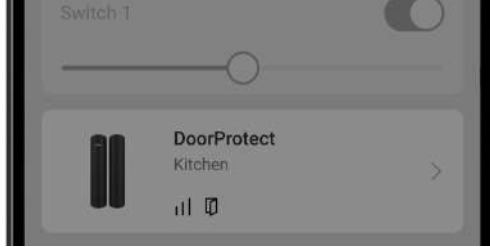
If the temperature protection of LightSwitch has been triggered or the touch-sensitive panel removed, the switch flashes red every second.

To inform you that LightSwitch is not paired with the hub, it flashes green every second for one minute:

- when you connect LightSwitch to the power supply the first time;
- when you press and hold the LightSwitch button for at least 3 seconds.

Malfunctions





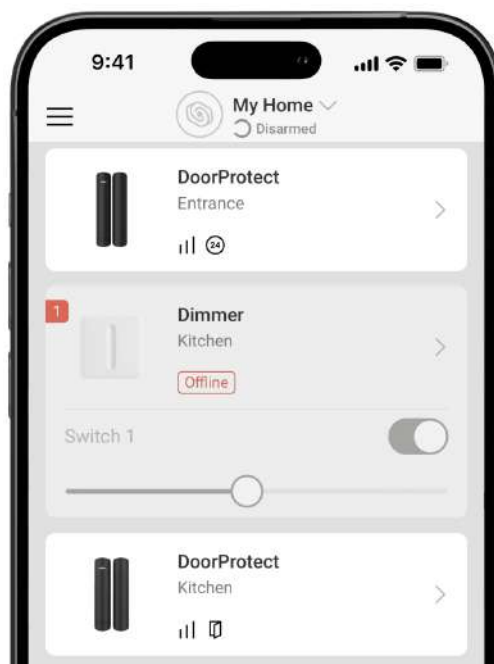
When the switch malfunction is detected (for example, there is no connection with the hub), the Ajax app displays a malfunction counter on the device icon.

All malfunctions are indicated in the switch states. Fields with malfunctions will be highlighted in red.

A malfunction is displayed if:

- Temperature protection was activated.
- An appliance with insufficient power is connected.
- An insufficient power supply is detected.
- There is no communication between LightSwitch and the hub (or range extender).

What to do in case of communication loss with the device



LightSwitch may lose communication with the hub for the following reasons:

- Power is no longer supplied.
- The touch-sensitive panel has been removed (it has antennas on it, which are necessary for communication with the hub or range extender).
- The lighting device is faulty (for example, the incandescent lamp burned out).
- A lighting appliance that is not supported by LightSwitch (Dimmer) Jeweller is connected. You can learn about the types of supported lamps [here](#).
- LightSwitch (Dimmer) Jeweller malfunction.

If an event about the loss of communication with the switch is received, the installer should check:

1. Power supply of LightSwitch.
2. Presence of a touch-sensitive panel on the switch.
3. Operability of the lighting appliance.

What to do if the lighting appliance does not operate correctly

If the lighting appliance flickers or does not turn on when connected to LightSwitch (Dimmer) Jeweller:

- Check the [compatibility](#) of the lighting appliance connected to LightSwitch (Dimmer) Jeweller.
- Raise the brightness threshold in the [dimmer settings](#).
- Connect the bypass. [Bypass \(Dimmer\) \[55\]](#) is sold separately.
- Change the lamp. Incorrect operation of the dimmer may be due to the characteristics of the lighting appliance.

If the problem is not resolved, the flickering of the lighting appliance may be

caused by an unstable 230 V, 50 Hz power supply.

Maintenance

Check the functioning of the switch regularly. Clean the enclosure from dust, cobwebs, and other contaminants as they emerge. Use a soft dry cloth suitable for equipment care. Do not use substances that contain alcohol, acetone, petrol, and other active solvents to clean the device.

Technical specifications

[All technical specifications of LightSwitch \(Dimmer\) Jeweller](#)

[Compliance with standards](#)

Complete set

LightSwitch is a prefabricated smart light switch. All parts are purchased separately.

Use the online [Ajax switches and outlets configurator](#) to assemble your custom set. Combine devices into a frame, pick the color, and download your configuration as PDF.

Warranty

The warranty for the products of the Limited Liability Company “Ajax Systems Manufacturing” is valid for 2 years after purchase.

If the device does not operate properly, we recommend contacting support service first, as most technical issues can be resolved remotely.

[Warranty obligations](#)

[User Agreement](#)

Contact Technical Support:

- [email](#)
- [Telegram](#)

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