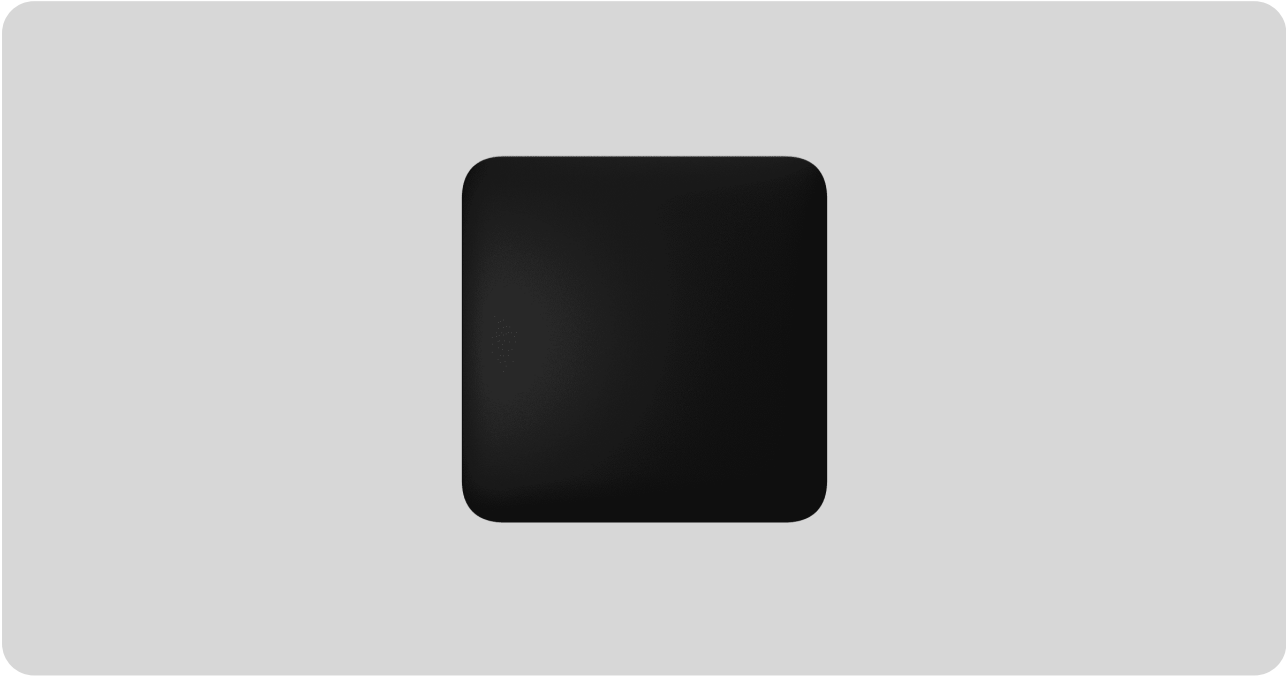
LightSwitch (Crossover) Jeweller user manual

Updated July 24, 2024



LightSwitch Jeweller is a smart touch light switch for indoor installation. It can replace any mechanical or touch switch, with the product line 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 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 1,100 meters in an open space.

> The list of compatible hubs and range extenders is available here.

Buy LightSwitch (Crossover) 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.

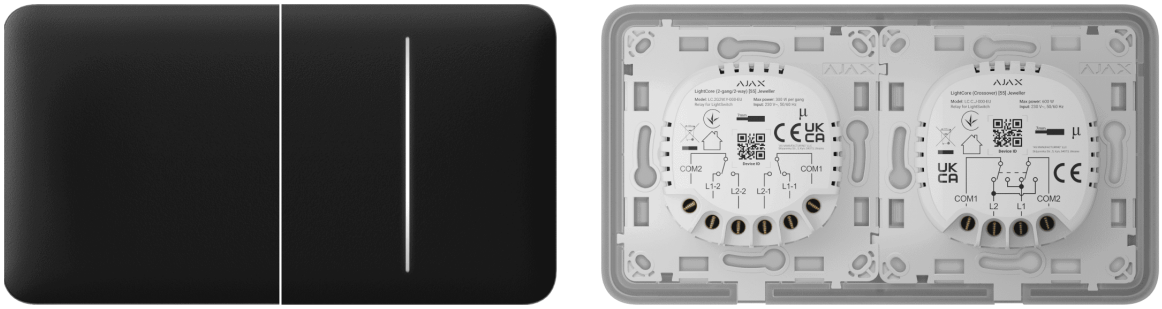
Ajax switches and outlets configurator

Single switch

A single LightSwitch is a prefabricated device that consists of two components:

- LightCore (Crossover) — relay for a crossover switch.
- SoloButton (1-gang) — touch-sensitive panel for a one-gang switch.

Combined switch



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

Relay

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.

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

Relay

LightCore (Crossover)

LightCore (Crossover) vertical

Touch-sensitive panels

Remove the sticker shown in the image below from the touch-sensitive panel before installing it on LightCore. This step is necessary for the correct LED indication of the device.

SoloButton (1-gang)

CenterButton (1-gang)

CenterButton (1-gang) vertical

SideButton (1-gang)

SideButton (1-gang) 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

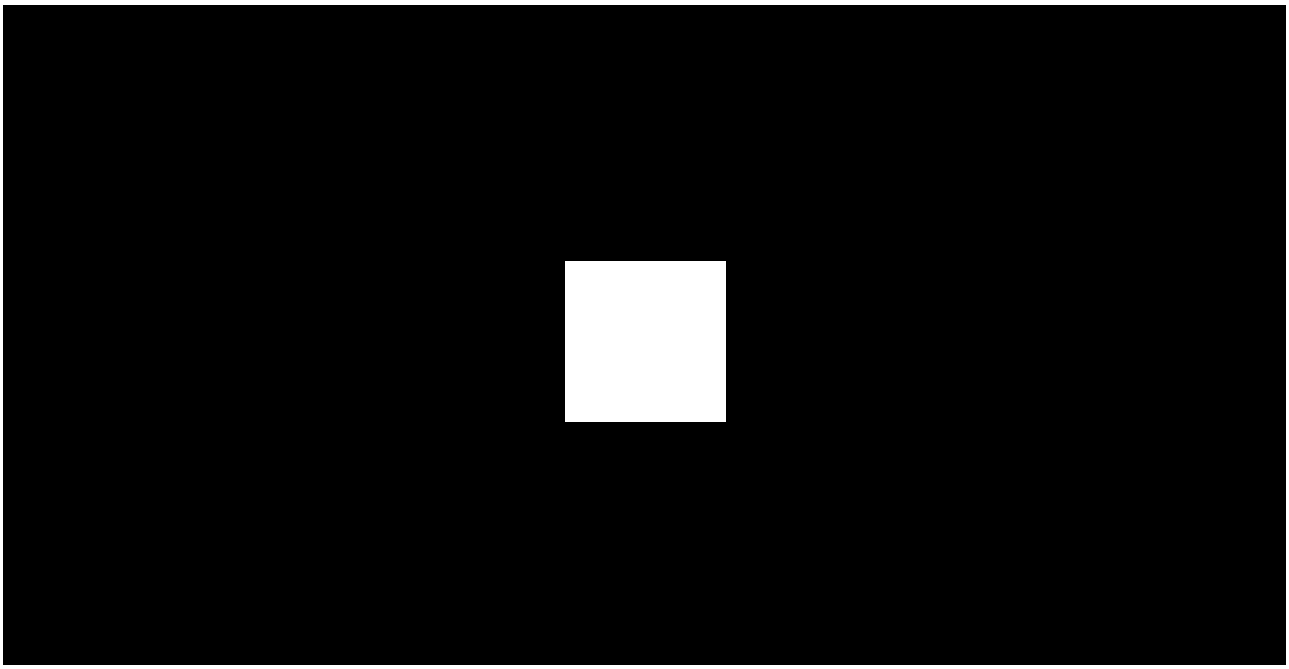
Frame (4 seats)

Frame (4 seats) vertical

Frame (5 seats)

Frame (5 seats) vertical

Operating principle



00:00 00:12

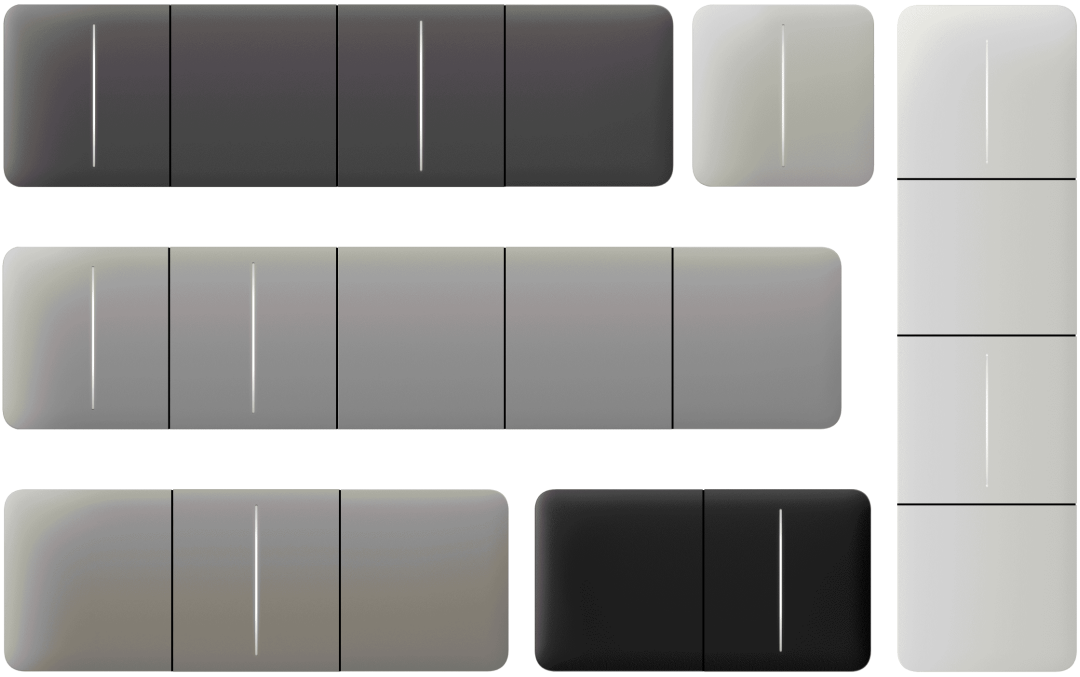
LightSwitch is a smart touch light switch. It can control the lighting in three ways: manually, through smartphone and PC apps, and using **automation scenarios**.

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 (Crossover) Jeweller can control lighting devices with power ranging from 7 to 600 W. For low-power lamps, the kit includes a capacitor that should be connected in parallel with the lighting device. Refer to the **installation section** of this manual for details.

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:

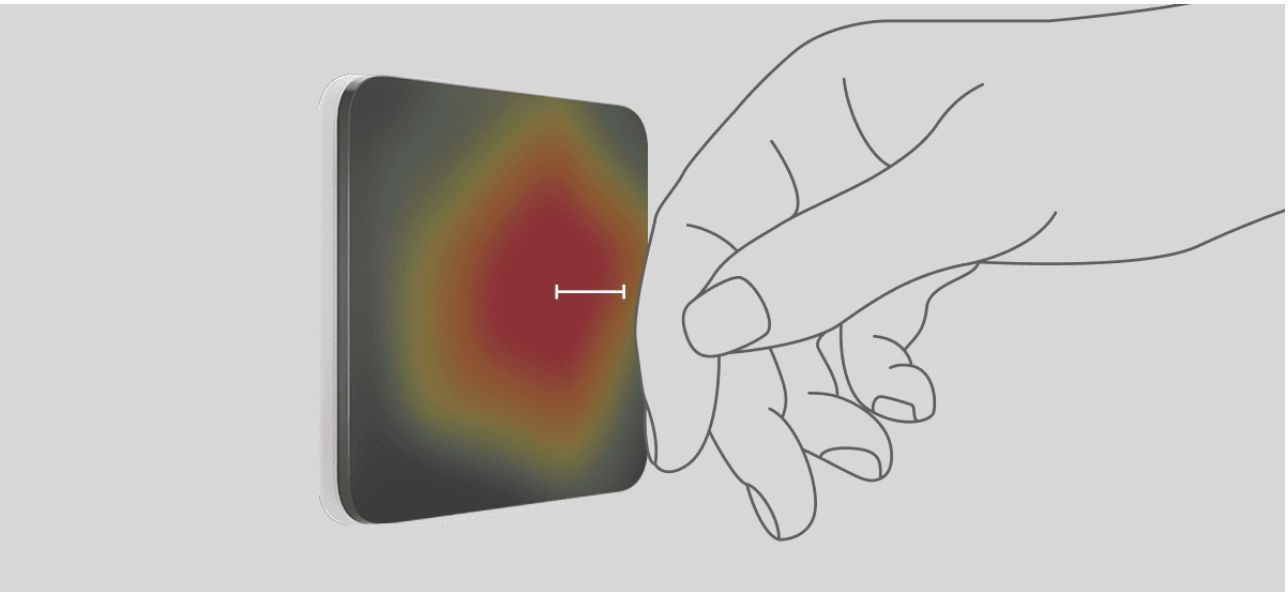
- **LightSwitch (1-gang) Jeweller**
- **LightSwitch (2-gang) Jeweller**
- **LightSwitch (2-way) Jeweller**
- **LightSwitch (2-gang/2-way) Jeweller**
- **LightSwitch (Crossover) Jeweller**

Devices combined in a frame can be installed horizontally and vertically. Vertical installation is supported only by relays, 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.

If necessary, LightSwitch can also control other appliances. For example, one button can control lighting, and the other one — room ventilation.

Manual control



LightSwitch allows users to control the lighting by presenting their hand within a distance of 15 millimeters or by touching the touch-sensitive panel. Contactless control is not limited, even if hands are dirty or wet. The sensor reacts under any conditions, allowing the switch to be installed in crowded places, such as restaurants, factories, and offices.

The sensitivity of the touch-sensitive panel can be adjusted in the device settings in the app. Higher sensitivity ensures contactless operation, while lower values might require a slight touch of the button.

The **LightSwitch** sensor instantly reads the signal and transforms it into an electric pulse. **LightCore** receives this pulse and activates a relay that switches

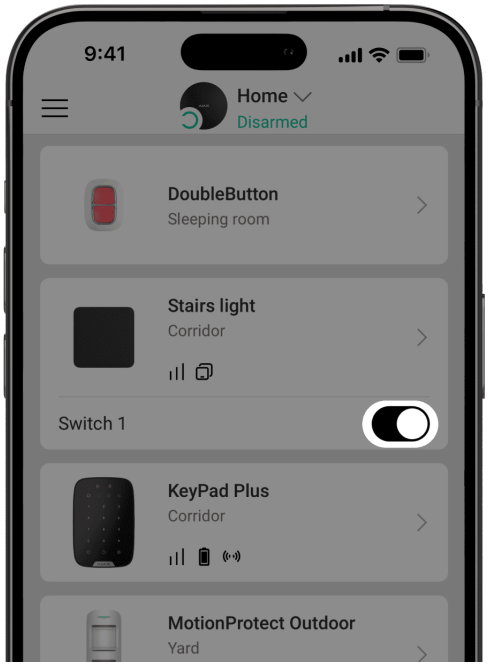
on/off the lighting device or another connected load type, such as a cooker hood.

The entire LightSwitch panel is touch-sensitive. Therefore, lighting can be controlled by touching or reaching any part of the touch-sensitive panel with a hand.

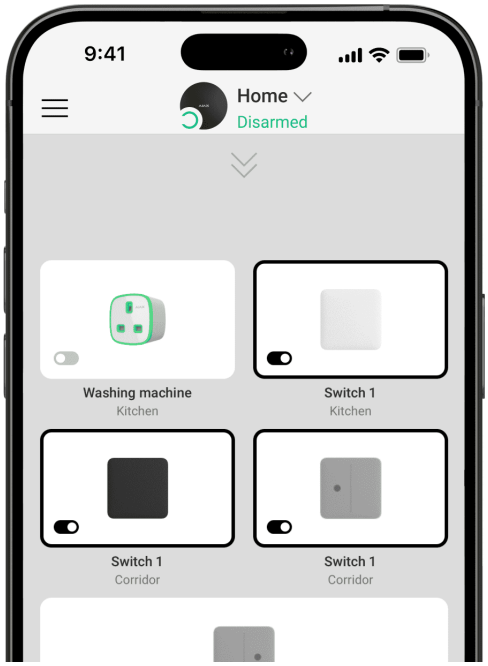
Remote control

Control via the app

LightSwitch can be used to control lighting manually and remotely through **Ajax apps**.

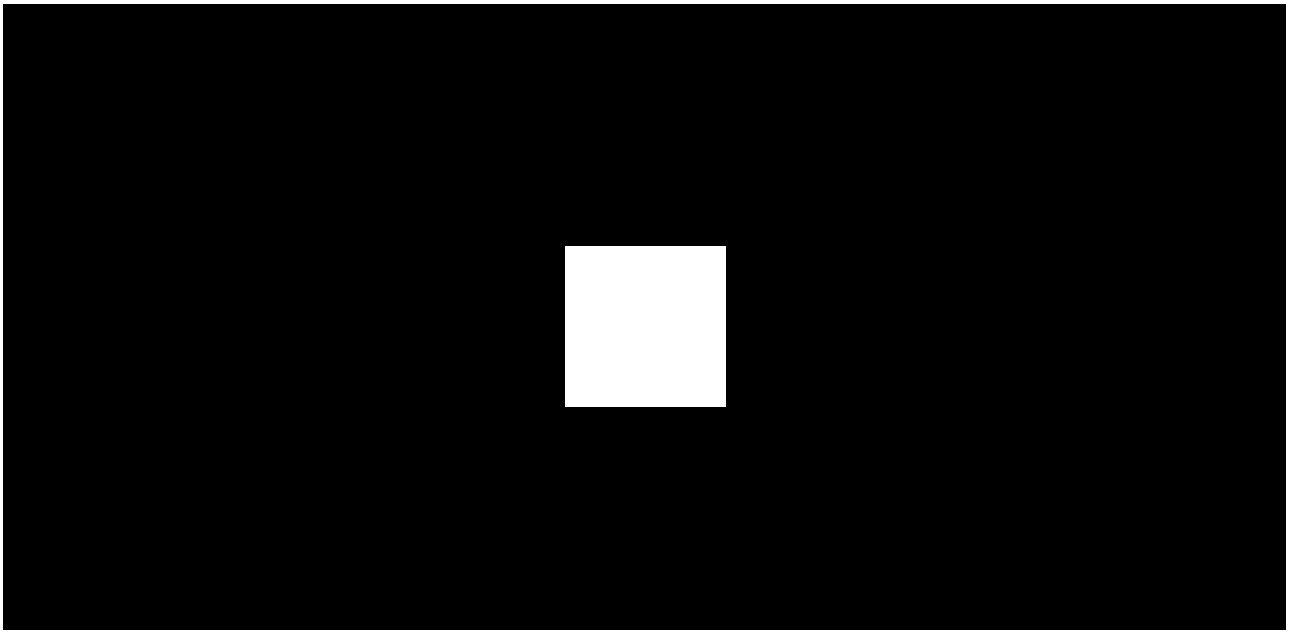


Open the Ajax app and click on the switch in the **LightSwitch** field in the **Devices** menu: the state of the switch contacts will change to the opposite, and the lighting will be switched off/on. This way, system users can, for example, switch on the lights in the room in advance.



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 state of the device contacts will change to the opposite. The lighting will be switched on/off.

Automation scenarios



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 Button press**
- **By temperature**
- **By humidity**
- **By CO_2 concentration**
- **By touching LightSwitch**

Scenarios by humidity and CO_2 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.

If the device is offline, it will not execute the scenario as it misses the scenario trigger (e.g., during a power outage or when the connection between the hub and device is lost).

Use case: The automated action is scheduled for 10 a.m., so it must start at 10 a.m. The electrical power goes out at 9:55 a.m. and is restored ten minutes later. The automation scenario won't start at 10 a.m. and will not start immediately after the power is back on. This scheduled action is missed.

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

Current protection is provided by the fast-blow 4 A fuse installed inside the device.

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

LightSwitch is compatible with most types of lamps and lighting devices. Detailed information on LightSwitch operation with different types of lamps is provided in the table.

LightSwitch compatibility with various types of lamps

Detection of lighting devices with insufficient power

LightSwitch continuously checks its power supply parameters. If LightSwitch controls the power of a lighting device with insufficient power (up to 7 W), the system will notify users. In this case, it is necessary to replace the lighting device with a similar one with higher capacity or to connect a bundled capacitor in parallel with the lighting device.

Learn more about a bundled capacitor

When **LightSwitch (Crossover) Jeweller** is connected to the same or other LightSwitch devices in one electric circuit, the minimum required power of a lighting device increases to 1 W per each additional LightSwitch. For instance, when two **LightSwitch (2-way) Jeweller** and two **LightSwitch (Crossover) Jeweller** are connected in one electric circuit, the minimum lamp power should be 10 W (7 W + 1 W + 1 W + 1 W).

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 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;
- Hub Hybrid (2G);
- 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**.

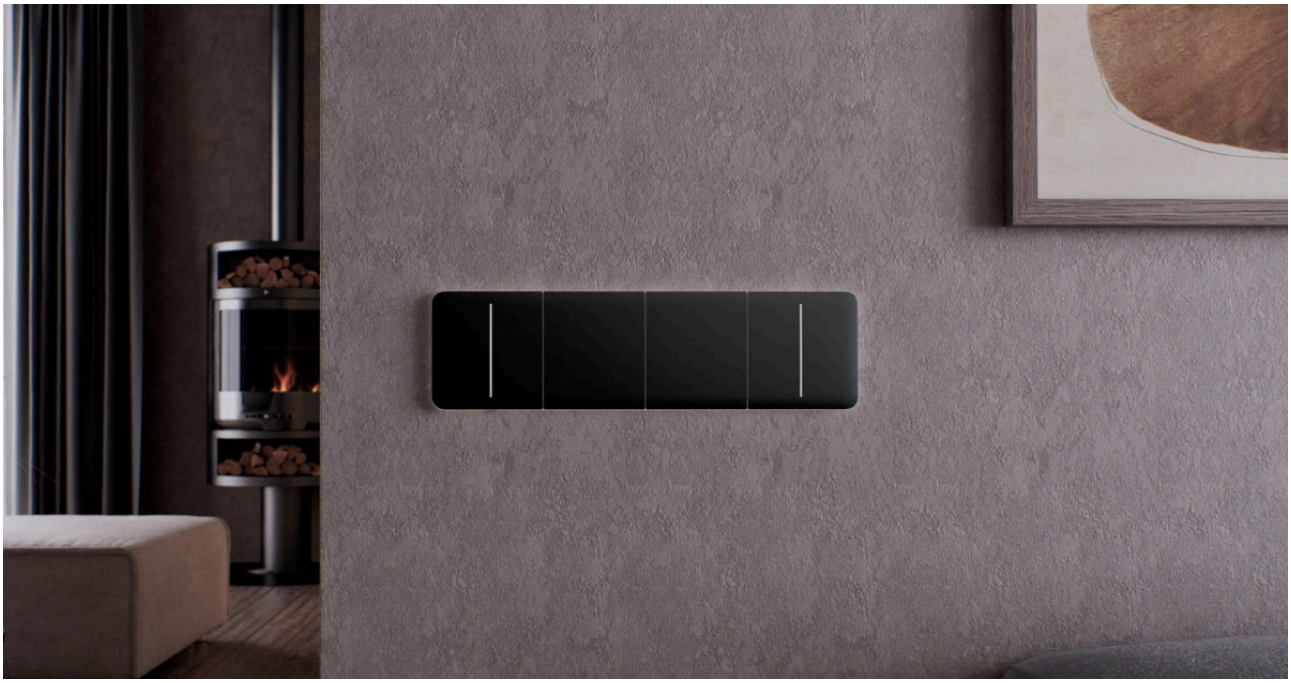
Only events of lost connection between the switch and the hub (or range extender) are transmitted to the CMS. No other events are sent to third-party monitoring stations of security or monitoring companies. Use PRO Desktop to receive all switch events on the CMS.

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, 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 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 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:

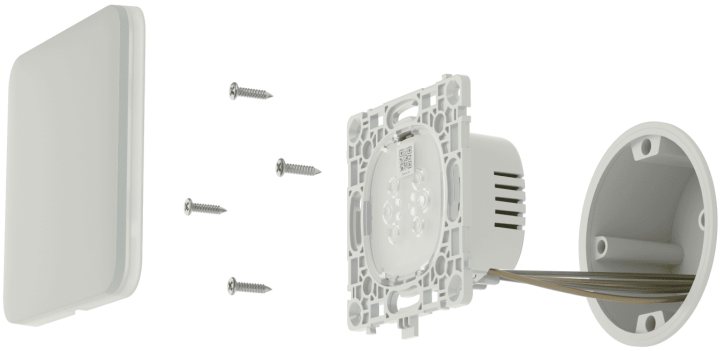
- **three bars** — excellent signal strength;
- **two bars** — good signal strength;
- **one bar** — low signal strength, stable operation is not guaranteed;
- **crossed out icon** — no signal.

> 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 or ReX 2 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. Do not switch 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 switch, 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 (Crossover) Jeweller cannot be connected to electric circuits with a load exceeding 600 W. 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 **Jeweller Signal Strength Test** and **Wings Signal Strength Test**, 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.

Ensure that the sticker shown in the image below has been removed from the touch-sensitive panel before installing it on LightCore. This is necessary for the correct LED indication of the device.

LightSwitch (Crossover) Jeweller can control 7 to 600 W lighting devices. The kit includes a capacitor connected in parallel with the lighting device for low-power lamps.

Learn more about bundled capacitor

When **LightSwitch (Crossover) Jeweller** is connected to the same or other LightSwitch devices in one electric circuit, the minimum required power of a lighting device increases to 1 W per each additional LightSwitch. For instance, when two **LightSwitch (2-way) Jeweller** and two **LightSwitch (Crossover) Jeweller** are connected in one electric circuit, the minimum lamp power should be 10 W (7 W + 1 W + 1 W + 1 W).

The maximum recommended number of LightSwitch devices connected in one electric circuit is **5 devices**. To increase the number of LightSwitch devices in one electric circuit, it is required to connect one bundled capacitor in parallel with the lighting device per each additional LightSwitch.

LightSwitch (Crossover) Jeweller and two LightSwitch (2-way) Jeweller

Installation of LightSwitch (Crossover) Jeweller and two LightSwitch (2-way) Jeweller

LightSwitch (Crossover) Jeweller and two third-party two-way switches

Installation of LightSwitch (Crossover) Jeweller and two third-party two-way switches

Several LightSwitch (Crossover) Jeweller and two LightSwitch (2-way) Jeweller

Installation of several LightSwitch (Crossover) Jeweller and two LightSwitch (2-way) Jeweller

LightSwich (Crossover) Jeweller and two LightSwitch (2-gang/2-way) Jeweller – two lighting devices

Installation of LightSwitch (Crossover) Jeweller and two LightSwitch (2-gang/2-way) Jeweller for two lighting devices

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 hub 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.

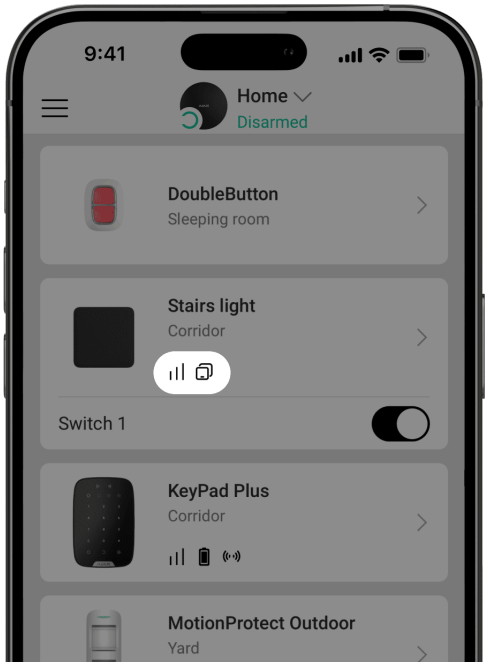
The Ajax system provides several tests to select the location of devices correctly. Tests do not start immediately. However, the waiting time does not exceed the duration of one “hub — device” ping interval. The default value is 36 seconds. The device ping interval can be changed in the **Jeweller** (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 determining the strength and stability of the signal at the installation site.

To run a test in the Ajax app:

1. Select the required hub.
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.

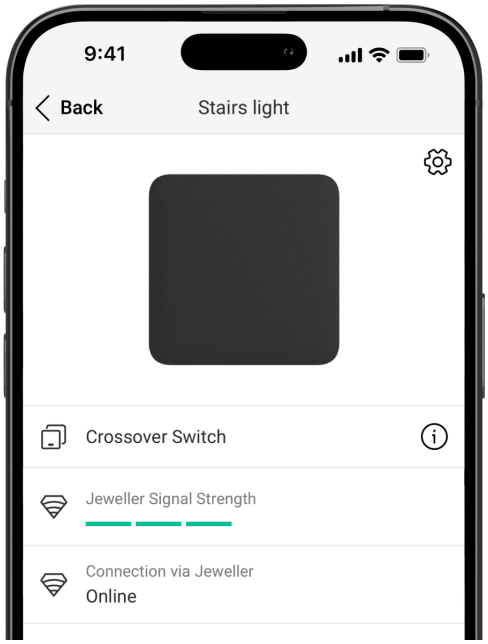
Icons



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

Icon	Meaning
	Jeweller Signal Strength displays the signal strength between the hub and the switch. **Learn more**
RE	The switch communicates with the hub via a **radio signal range extender**.
	Temperature protection was activated. **Learn more**
	The device was not transferred to the new hub. **Learn more**

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 hub.
3. Go to the **Devices** tab.
4. Select LightSwitch in the list.

Parameter	Meaning
Malfunction	Clicking on ⓘ opens a list of switch malfunctions. The field is displayed only if a malfunction is detected.
New firmware version available	Clicking on ⓘ opens the instructions for updating the firmware of the light switch. 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**. **Learn more**

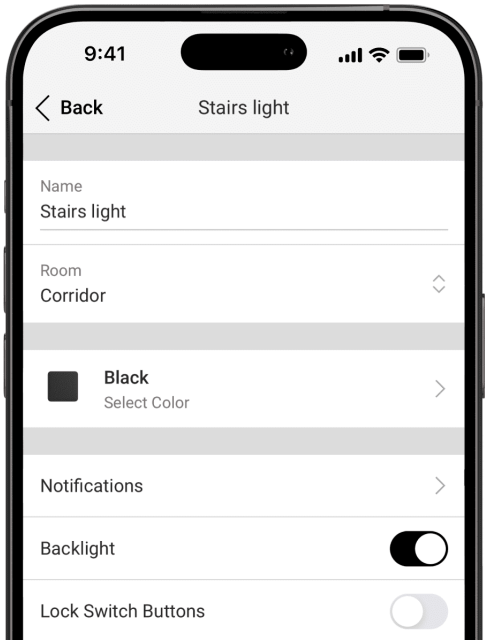
Jeweller Signal Strength	Signal strength between the switch and the hub (or range extender) via the Jeweller channel. Recommended values: 2–3 bars. Jeweller is a protocol for transmitting LightSwitch events and commands. Learn more
Connection via Jeweller	Connection status between the switch and the hub (or range extender): • **Online** — the switch is connected to the hub (or range extender). • **Offline** — the switch has lost connection with the hub (or range extender). Check the device.
Wings Signal Strength	Wings signal strength between the device and the hub (or the range extender). The recommended value is 2–3 bars. Wings is a protocol for updating firmware and transmitting the list of the groups, rooms, and other additional information. **The field is not displayed if the light switch is connected to Hub Plus.** Learn more

Connection via Wings	Connection status on the Wings channel between the hub or the range extender and the device: • **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. **The field is not displayed if the light switch is connected to Hub Plus.** Learn more
Left/Right button	The section that shows the state of the switch buttons: • **On** — the switch is on, and the light is on. • **Off** — the switch is off, and the light is off.
Operating time	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).
Lock Switch Buttons	The switch button lock status is displayed as follows: • **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	The level of switch sensitivity: • **Minimum** • **Low** • **Standard** • **High**

	• **Maximum** Higher sensitivity ensures contactless operation, while lower values might require slightly touching the switch button.
Backlight	The status of the switch frame backlight is displayed as follows: • **On** — the LED frame is backlit when the switch is off. • **Off** — the LED frame is not backlit when the switch is off.
Range extender name	Status of switch connection to the **radio signal range extender**: • **Online** — the switch is connected. • **Offline** — the switch is not connected. **Check the device**. The field is displayed if the switch operates via a radio signal range extender.
Permanent Deactivation	Displays the status of the device permanent deactivation setting: • **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. **Learn more**
One-Time Deactivation	Displays the status of the device one-time deactivation setting: • **No** — the device operates in normal mode.

	• **Entirely** — the device is completely excluded from system operation until the first disarm. It does not execute system commands or report alarms and other events. Learn more
Firmware	Device firmware version.
Device ID	LightSwitch ID. Also available on the QR code on 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 hub.
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
Name	LightSwitch name. Displayed in the text of SMS and events feed notifications. To change the switch name, click on the text field. The name can contain up to 12 Cyrillic characters or up to 24 Latin symbols.
Room	Virtual room to which LightSwitch is assigned. To change the room, click on the field. The room name is displayed in the text of SMS and events feed notifications.
Select Color	Option to select a color for the switch icon in the app. One of 8 colors can be chosen: • Black • White • Fog • Grey • Oyster • Olive • Graphite • Ivory Colors from the list correspond to colors of the touch-sensitive panels.
Notifications	Switch notification settings in the app:

	• **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. • **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. **Note that turning on/off and scenario execution notifications are disabled by default.**
Backlight	Allows configuring the switch frame backlight. Activate this option to switch backlit when the lighting is off.
Lock Switch Buttons	Allows configuring the switch button lock. Activate this option to make the switch unresponsive to touch. Users will be able to control the switch in the app only.
Switch Sensitivity	Adjust the level of switch sensitivity: • **Minimum** • **Low** • **Standard** (set by default) • **High** • **Maximum** Higher sensitivity ensures contactless operation, while lower values might require slightly touching the switch button.
Left/Right Button Name	To change the name, click on the text field.
Shutoff by Timer	Option for 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.
Scenarios	Opens the menu for creating and configuring automation scenarios.

	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. **Learn more**
Firmware Update	Switches the device to the firmware update mode if a new version is available. **The field is not displayed if the light switch is connected to Hub Plus.** **Learn more**
Jeweller Signal Strength Test	Starts testing the Jeweller signal strength between the switch and the hub (or range extender). 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. **Learn more**
Wings Signal Strength Test	Switches the device to the Wings signal strength test mode. **Learn more**
User Guide	Opens the switch user manual in the Ajax app.
Permanent Deactivation	Allows to deactivate the device without removing it from the system. Two options are available: • **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.

	LightSwitch will retain its state at the time of deactivation: on/off. Learn more
One-Time Deactivation	Allows the user to disable events of the device until the first disarm. Two options are available: • **No** — the device operates in normal mode. • **Entirely** — the device is completely excluded from system operations until the first disarm. The device does not execute system commands or report alarms and other events. **LightSwitch will retain its state at the time of deactivation: on/off.** Learn more
Delete Device	Disconnects the device from the hub and deletes its settings.

LED indication

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

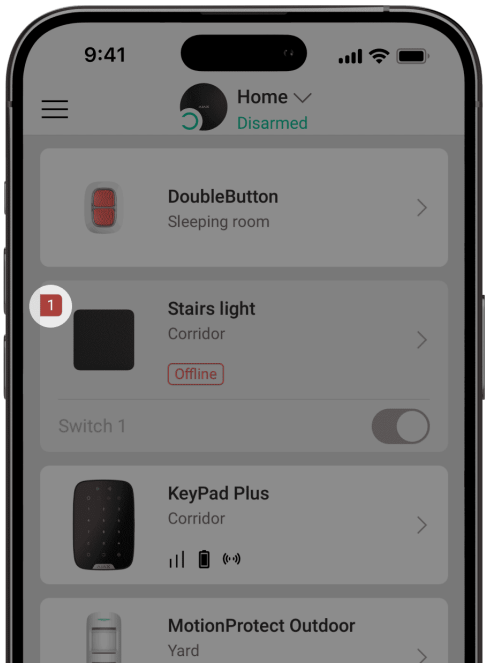
is installed near a bed. The backlight can be turned off in the Ajax app if necessary.

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.

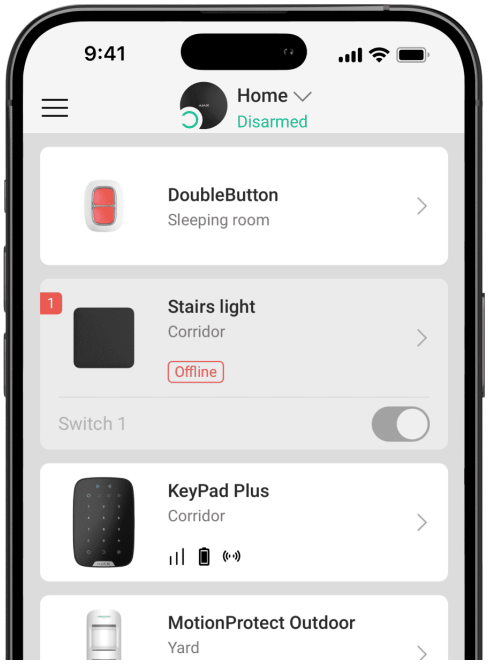
All malfunctions are indicated in the switch **states**. Fields with malfunctions will be highlighted in red.

A malfunction is displayed if:

- Temperature protection was activated.

- A device 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 loss of communication 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 device with insufficient power (up to 7 W) is connected.
- LightSwitch 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 device.

> If LightSwitch controls a lighting device with insufficient power (up to 7 W), replace the lighting device with a similar one with a higher power or connect a bundled capacitor in parallel with the lighting device.

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 (Crossover) 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 in most cases, technical issues can be resolved remotely.

Warranty obligations

User Agreement

Contact Technical Support:

- email
- Telegram

Subscribe to the newsletter about safe life. No spam

Email

Subscribe