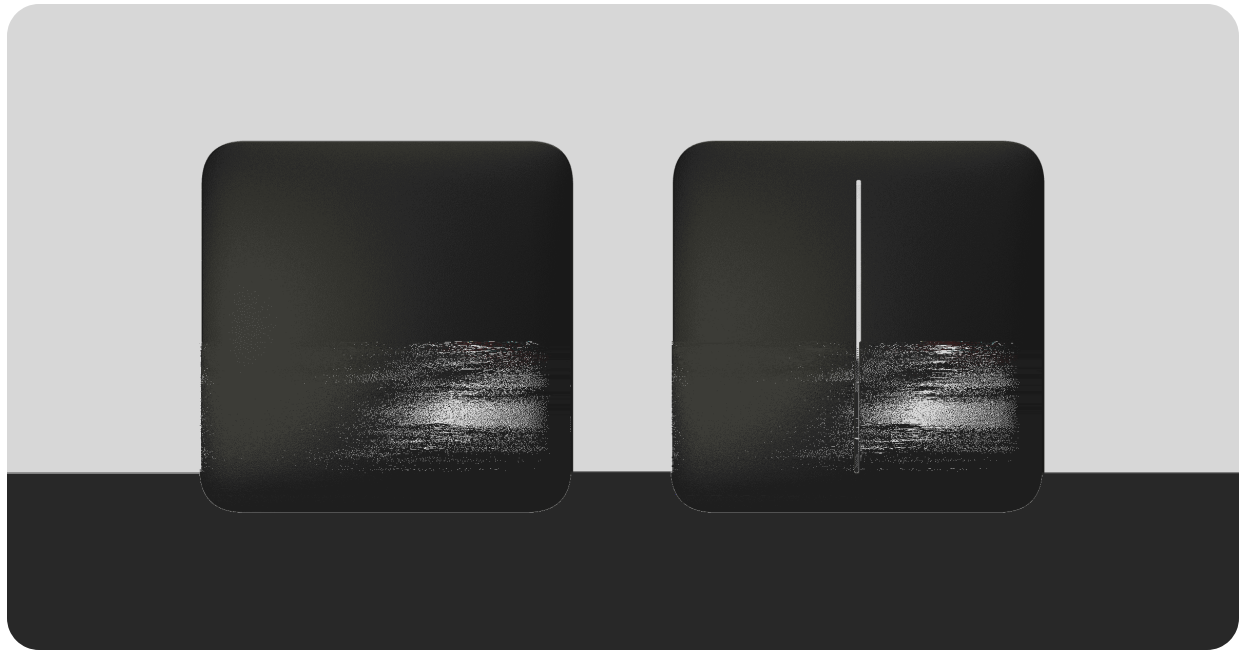


LightSwitch Jeweller user manual

Updated March 17, 2025



LightSwitch Jeweller



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.



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

Buy LightSwitch

Design

Ajax switches and outlets configurator

Single switch



SoloButton



LightCore

Relay



Touch-sensitive panels



Combined switch



LightCore

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 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

switch settings

LightSwitch

Functional elements

Relay

LightCore (1-gang)



LightCore (1-gang) vertical



LightCore (2-gang)



LightCore (2-gang) vertical



LightCore (2-way)



LightCore (2-way) vertical



Touch-sensitive panels



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 correct LED indication of the device.



SoloButton (1-gang)



SoloButton (2-gang)	▼
CenterButton (1-gang)	▼
CenterButton (1-gang) vertical	▼
CenterButton (2-gang)	▼
CenterButton (2-gang) vertical	▼
SideButton (1-gang)	▼
SideButton (1-gang) vertical	▼
SideButton (2-gang)	▼
SideButton (2-gang) vertical	▼

Frames

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

0:00 / 0:14

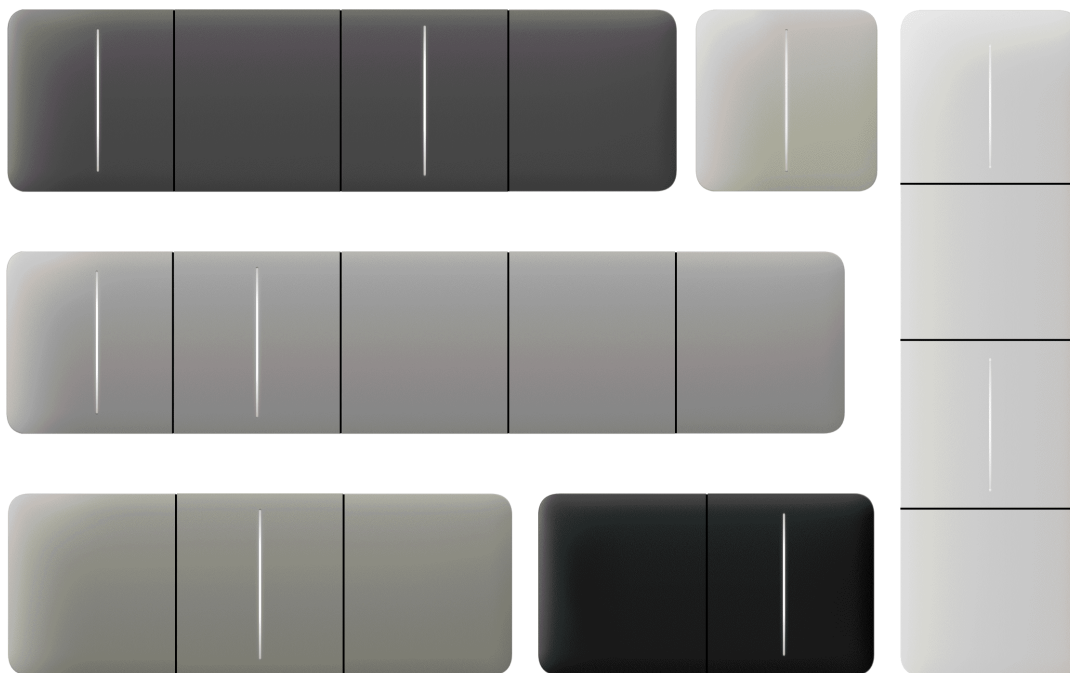
automation scenarios



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

installation section

Ajax apps



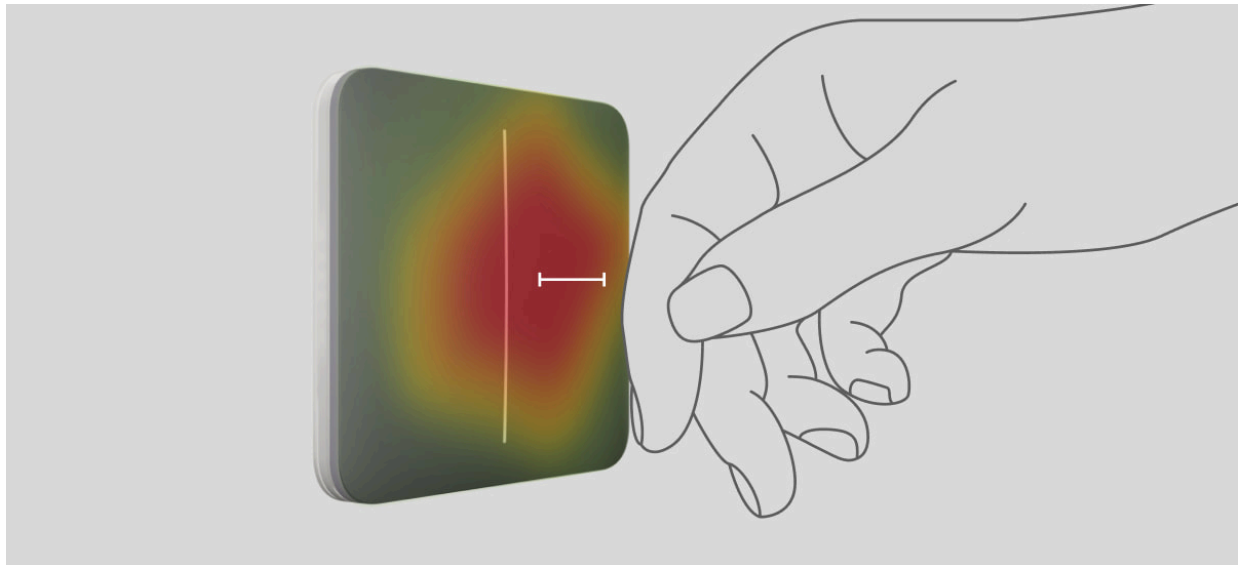
- 1-gang
- 2-gang
- 2-way

vertical



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.

Manual control



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 slightly touching the switch button.

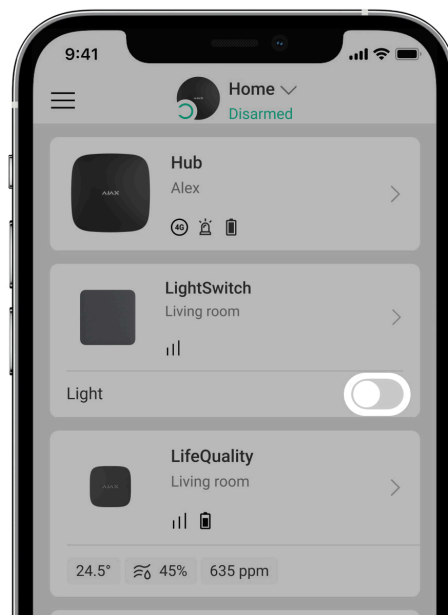
LightSwitch

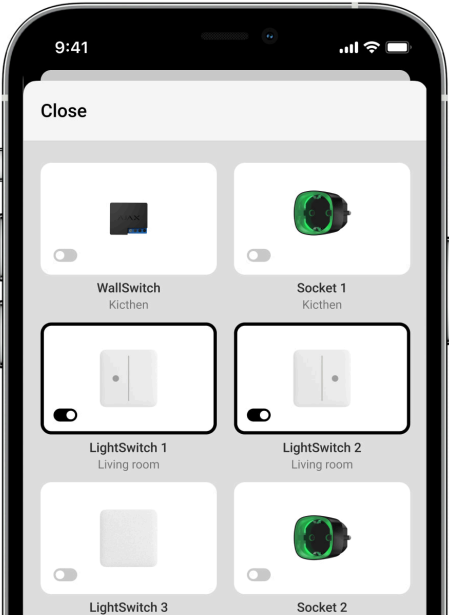
LightCore

Remote control

Control via the app

Ajax apps





Control 

Control 

LightSwitch

Automation scenarios

0:00 / 0:07

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



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 executing one scenario activates the following one. This behaviour is intended to prevent accidental endless looping of such scenarios.

[More about scenarios](#)

Operation modes

[device settings](#)

Types of electrical protection of the switch



LightSwitch

Current protection

LightSwitch

Ajax apps

toggle in the Ajax app

touch-sensitive panel of the switch

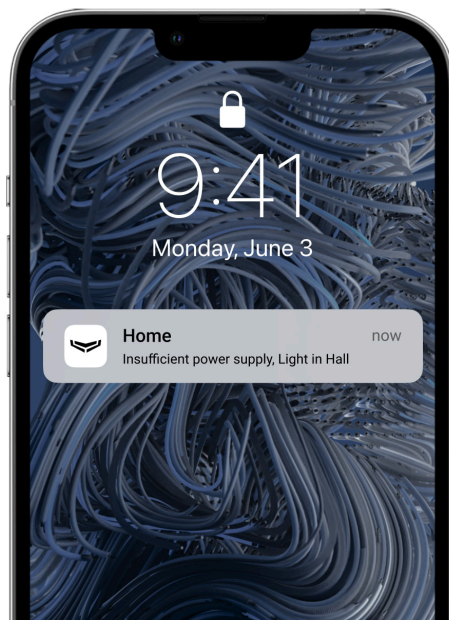
Temperature protection

Types of supported lamps

LightSwitch compatibility with various types of lamps



Detection of lighting devices with insufficient power



[Learn more about bundled capacitor](#)

Jeweller data transfer protocol



Jeweller

Jeweller/Fibra

Jeweller

[More about Jeweller](#)

Sending events to the monitoring station

[PRO Desktop](#)

SurGard

(Contact ID), SIA DC-09 (ADM-CID), ADEMCO 685

[Which CMSs are compatible with the Ajax system](#)



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



The switch ID and loop (zone) number can be found in their states in the Ajax app.

Selecting the installation site



Do not connect the neutral wire to the LightSwitch terminals. This can damage the device.



Devices 

Signal strength value:

- Three bars
- Two bars
- One bar
- Crossed out icon

calculator

radio communication range

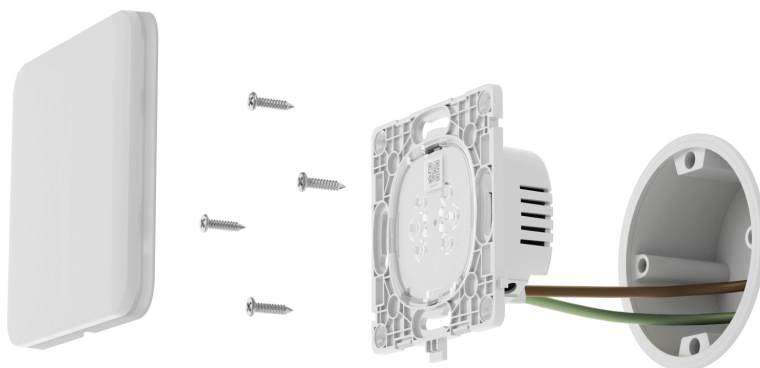
radio signal range extender

Do not install 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 necessary for communication with the hub.

Strength Test



The installed touch-sensitive panel can be removed from LightSwitch with a flat screwdriver. To complete this, insert it into the hole from below 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 correct LED indication of the device.



Installation of 1-gang switch

Installation of switch



Installation of 2-gang switch

Installation of switch



Installation of 2-way switch

2-way LightSwitch with a third-party mechanical switch



Two 2-way LightSwitch switches



Two 2-way LightSwitch switches with a third-party intermediate switch



Adding to the system

Before adding a device

1. [Ajax app](#)
2. [account](#)
- 3.

[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. virtual room

5. compatible hub

6.



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



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 necessary for communication with the hub.

radio signal range extender

To add LightSwitch to the hub:

- 1. Install LightSwitch
- 2. Ajax app
- 3. Ajax PRO app
- 4. **Devices**  **Add device**
- 5.
- 6.
- 7. virtual room group mode
- 8. **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 central unit model and the **Jeweller** (or **Jeweller/Fibra**) settings.

- 9. **Jeweller**
Jeweller/Fibra



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

Jeweller

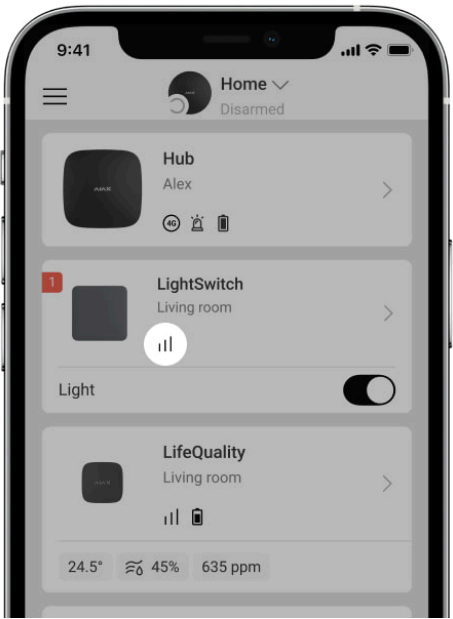
Jeweller/Fibra

Jeweller Signal Strength Test

To run a test in the Ajax app:

- 1.
2. **Devices** 
- 3.
4. **Settings** 
5. **Jeweller Signal Strength Test**
- 6.

Icons

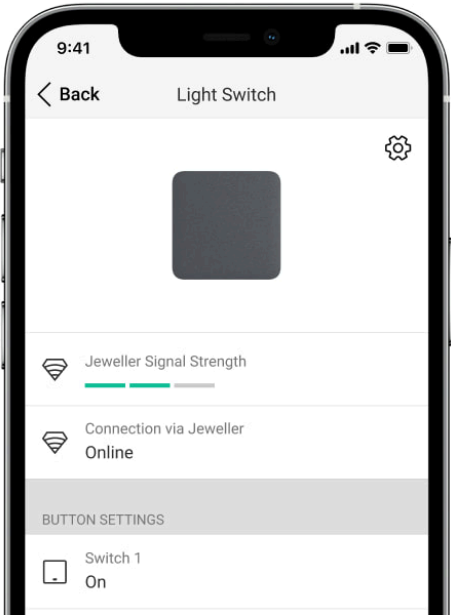


Devices

Icon	Meaning
	Jeweller 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 .
	Current protection was activated. Learn more

	Temperature protection was activated. Learn more
Offline	The device has lost connection with the hub or the hub has lost connection with the Ajax Cloud server.
Not transferred	The device has not been transferred to the new hub. Learn more

States



- 1.
- 2.

3. Devices

4. LightSwitch

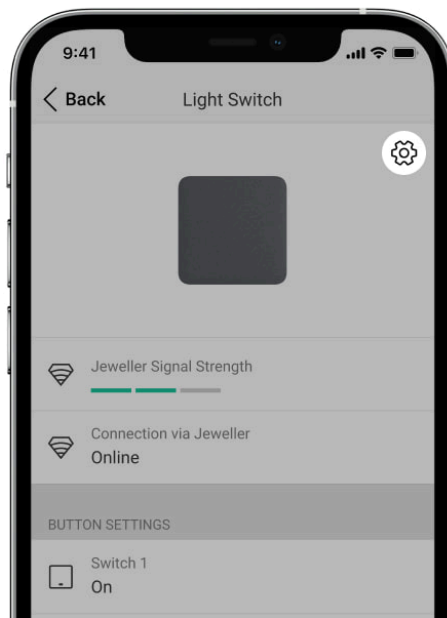
Parameter	Meaning
Data import	Displays the error when transferring data to the new hub: • Failed – the device has not been transferred to the new hub. Learn more
Malfunction	Clicking on  opens a list of switch malfunctions. The field is displayed only if a malfunction is detected.
Jeweller signal strength	Signal strength between the switch and the hub (or the 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.

Range extender name	Status of switch connection to the <u>radio signal range extender</u>: • Online — the switch is connected. • Offline — the switch is not connected. <u>Check the device.</u> The field is displayed if the switch operates via a radio signal range extender.
Name of the button/buttons	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: • On — the button/buttons are locked. The switch will not respond to the button/buttons touch. • Off — 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.
Recover state after power outage	The status of the recovering switch state after a power outage: • 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.  Available for LightSwitch (1-gang) Jeweller, LightSwitch (2-gang) Jeweller, and LightSwitch (2-way) Jeweller with firmware version 5.60.1.42 or later.
Permanent deactivation	Displays the status of the device's 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's 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 in the Ajax app:

1.

2.

3. **Devices** 

4. **LightSwitch**

5. **Settings** 

6.

7. **Back**

Settings	Meaning
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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.
Color	Option to select a color for the switch icon in the app. In the app, one of 8 colors can be chosen: • Black • White • Fog • Grey • Oyster • Olive • Graphite • Ivory The list of colors corresponds to the 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	Option for the switch frame backlight setup. Activate this option to switch backlit when the lighting is off.
Lock switch buttons	Option for the switch button lock setup. Activate if you want the switch not to respond to touch. Users will be able to control the switch in the app only.
Recover state after power outage	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.  Available for LightSwitch (1-gang) Jeweller, LightSwitch (2-gang) Jeweller, and LightSwitch (2-way) Jeweller with firmware version 5.60.1.42 or later.
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.
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 a 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. <u>Learn more</u>
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. <u>Learn more</u>

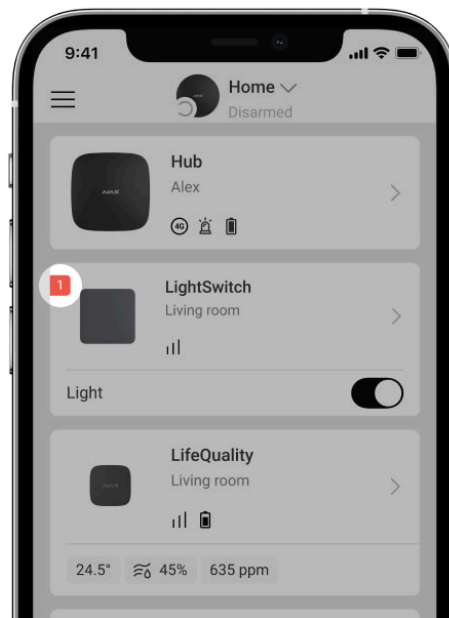
User guide	Opens the switch User Manual in the Ajax app.
Permanent deactivation	Allows to deactivate the device without removing it from the system. Two options are available: • No — the device responds to commands, executes scenarios, and transmits all events. • Entirely — the switch does not respond to commands in the app, does not execute scenarios or report events, but responds to touch. After deactivation, LightSwitch will retain its state at the time of deactivation: on or 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. After deactivation, LightSwitch will retain its state at the time of deactivation: on or off. Learn more
Delete device	Disconnects the device from the hub and deletes its settings.

LED indication



-
-

Malfunctions

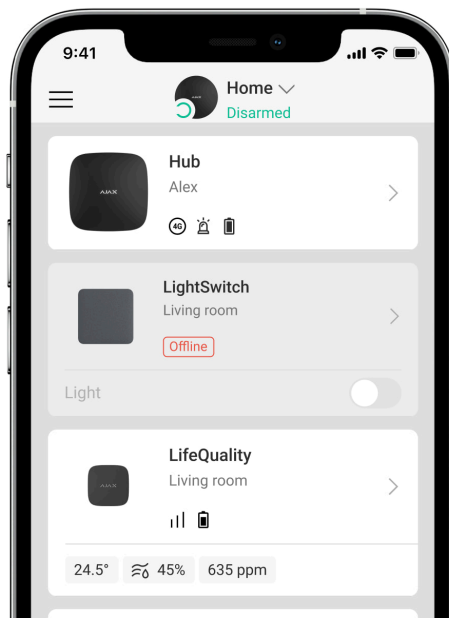


states

A malfunction is displayed if:

-
-
-
-
-

What to do in case of communication loss with the device



•

•

•

•

•

1.

2.

3.



If LightSwitch controls a lighting device with insufficient power (up to 5 W), it is necessary to replace the lighting device with a similar one with a higher power or connect a [bundled capacitor](#) in parallel with the lighting device.

Maintenance

Technical specifications

[All technical specifications of LightSwitch \(1-gang\)](#)

[All technical specifications of LightSwitch \(2-gang\)](#)

[All technical specifications of LightSwitch \(2-way\)](#)

[Compliance with standards](#)

Complete set

[Ajax switches and outlets configurator](#)

Warranty

Warranty obligations

User Agreement

Contact Technical Support:

- **email**
- **Telegram**

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Email

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