

LightSwitch

Smart switch



Single switch

A single LightSwitch consists of two components: a relay and a button.

Components

Relay



LightCore (1-gang)

Relay for a 1-gang switch.



LightCore (2-gang)

Relay for a 2-gang switch.



LightCore (2-way)

Relay for a 2-way switch.

Buttons



SoloButton (1-gang / 2-way)

Button for a 1-gang or 2-way switch.



SoloButton (2-gang)

Button for a 2-gang switch.

Combined switch

A combined switch consists of 2, 3, or 4 switches installed in one frame.

Components

Relay



LightCore (1-gang)

Relay for a 1-gang switch.



LightCore (2-gang)

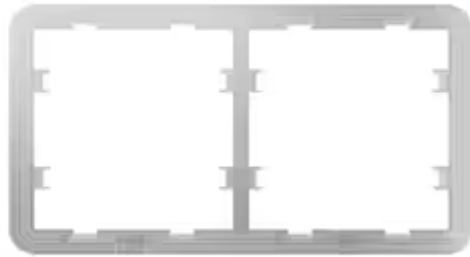
Relay for a 2-gang switch.



LightCore (2-way)

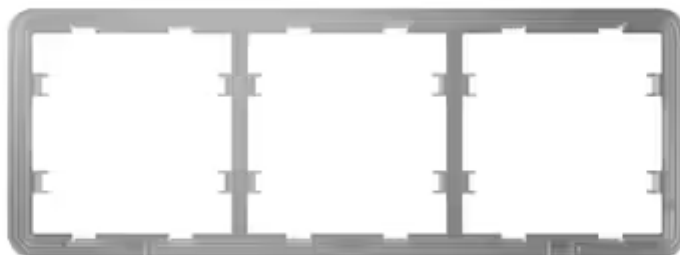
Relay for a 2-way switch.

Frames



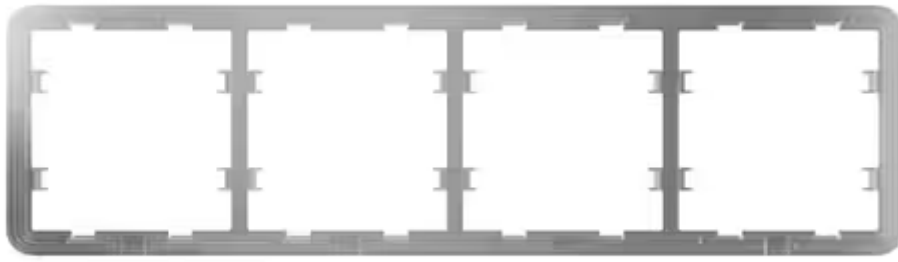
Frame (2 seats)

Frame for two switches.



Frame (3 seats)

Frame for three switches.



Frame (4 seats)

Frame for four switches.

Buttons



CenterButton (1-gang / 2-way)

Central button for a 1-gang or 2-way switch.



CenterButton (2-gang)

Central button for a 2-gang switch.



SideButton (1-gang / 2-way)

Side button for a 1-gang or 2-way switch. Can be installed on the right or left.



SideButton (2-gang)

Side button for a 2-gang switch. Can be installed on the right or left.

Button colours

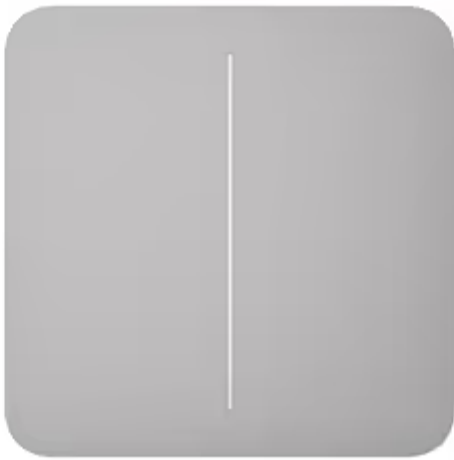
Black



White



Fog



Gray



Graphite



Ivory



Oyster



Olive



Compatibility

Hubs

Hub Plus >

Hub 2 (2G) >

Hub 2 (4G) >


Hub 2 Plus >

Hub Hybrid (2G) >

Hub Hybrid (4G) 

Radio signal range extenders

ReX 

ReX 2 

Communication

Jeweller communication technology

Proprietary wireless technology to transmit the commands and events.

Features:

- Two-way communication.
- Protection against device spoofing.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote configuration via the Ajax apps.

Learn more 

Radio frequency bands

866.0 – 866.5 MHz

868.0 – 868.6 MHz

868.7 – 869.2 MHz

905.0 – 926.5 MHz

915.85 – 926.5 MHz

921.0 – 922.0 MHz

Depends on the sales region.

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Radio communication range

up to 1,100 m

Between the device and a hub (or radio signal range extender) in an open space.

Calculate radio communication range at the facility >

Encrypted radio communication

All the data stored and transmitted are protected by block encryption with a dynamic key.

Frequency hopping

To prevent radio interference and jamming.

Learn more >

Features

Scenarios

- reaction to alarm
- reaction to security mode change
- activation by schedule
- reaction to pressing another LightSwitch

Learn more >

Operation without neutral wire

LightSwitch only needs a live wire to operate.

Power of switched device

from 5 to 600 W

Contactless touch panel

LightSwitch is activated when a hand gets as close as 15 mm from the panel.

Night backlight

Optional, can be turned off in the Ajax app device settings.

Protection against incompatible devices

Triggers if lighting devices have insufficient power (up to 5 W). If protection is triggered, LightSwitch turns off power and sends a notification to Ajax apps. For low-power lighting devices, the kit includes a capacitor.

Recommendations

The device is designed for indoor installation only. A professional electrician should install a device.

Anti-sabotage protection

Protection against spoofing

device authentication

Communication loss detection

from 36 seconds

The time to detect the communication loss depends on the **Jeweller** (or **Jeweller/Fibra**) settings.

Learn more 

Power supply

Power supply voltage

230 V, 50 Hz

The device does not need a neutral wire to operate.

Average consumption

up to 200 mW

Maximum power

600 W

For LightCore (1-gang) and LightCore (2-way).

300 W per segment

For LightCore (2-gang).

Current protection

more than 2.6 A

If protection is triggered, LightSwitch turns off power and sends a notification to Ajax apps.

Temperature protection

more than +60°C

If protection is triggered, LightSwitch turns off power and sends a notification to Ajax apps.

Operating parameters

Operating temperature range

from –10°C to +40°C

Operating humidity

Up to 75% with no condensation

Protection class

IP20

Form factor of the switch

European type (55)

Weight

Relay

LightCore (1-gang) — 45.95 g

LightCore (2-gang) — 53.9 g

LightCore (2-way) — 48.34 g

Frames

Frame (2 seats) — 16.13 g

Frame (4 seats) — 22.12 g

Frame (4 seats) — 28.12 g

Buttons

SoloButton (1-gang / 2-way) — 44.5 g

SoloButton (2-gang) — 45.75 g

CenterButton (1-gang / 2-way) — 30.97 g

CenterButton (2-gang) — 31.97 g

SideButton (1-gang / 2-way) — 31.56 g

SideButton (2-gang) — 32.73 g

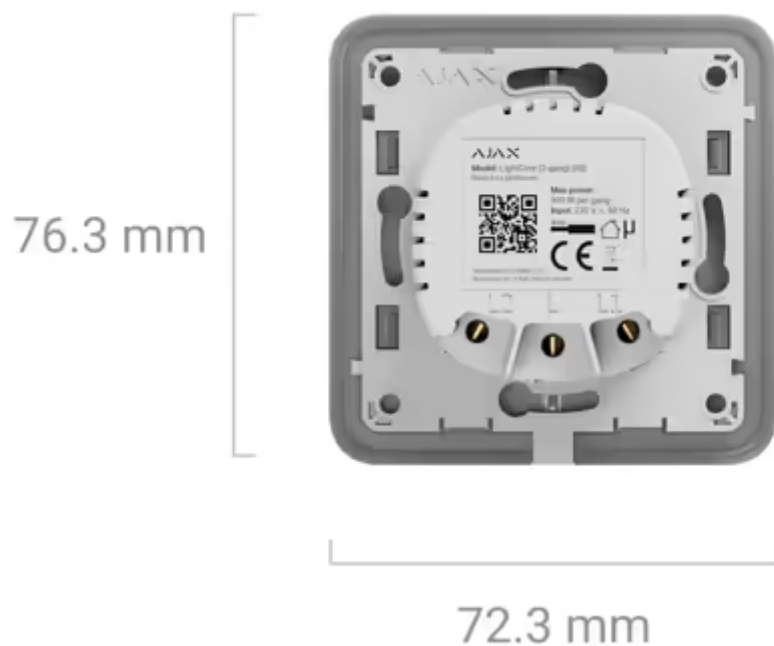
Dimensions

Relay

LightCore (1-gang) — 76.3 × 72.3 × 29.2 mm

LightCore (2-gang) — 76.3 × 72.3 × 29.2 mm

LightCore (2-way) — 76.3 × 72.3 × 29.2 mm

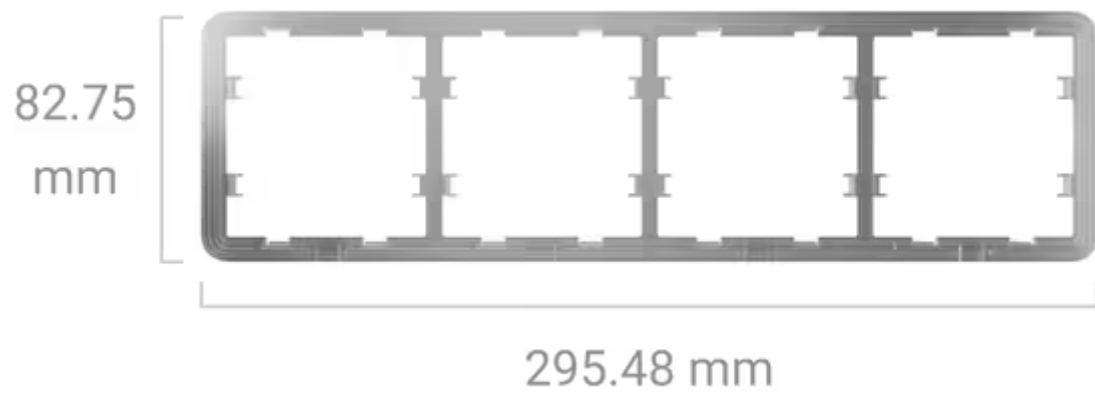
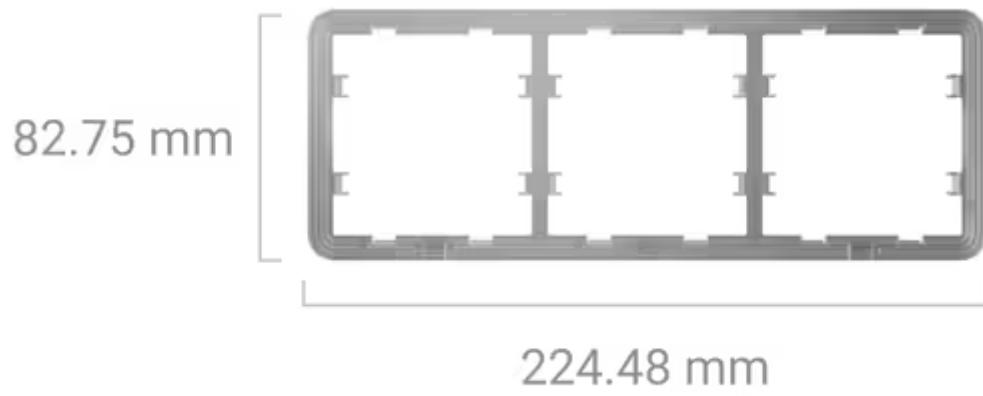
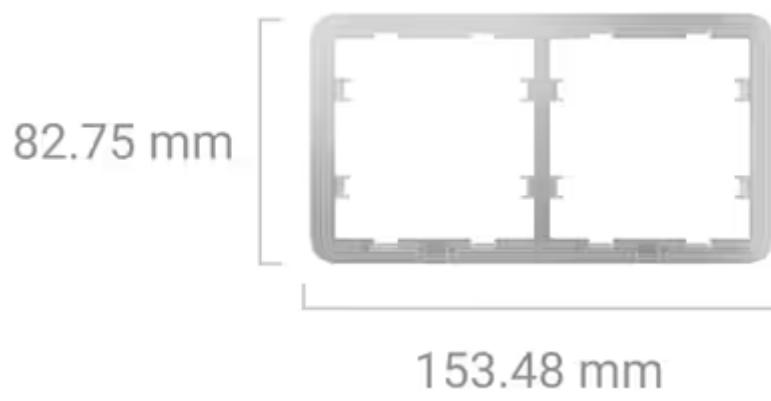


Frames

Frame (2 seats) — $82.75 \times 153.48 \times 6.3$ mm

Frame (3 seats) — $82.75 \times 224.48 \times 6.3$ mm

Frame (4 seats) — $82.75 \times 295.48 \times 6.3$ mm





Buttons

SoloButton (1-gang / 2-way) – $82.75 \times 82.75 \times 10.26$ mm

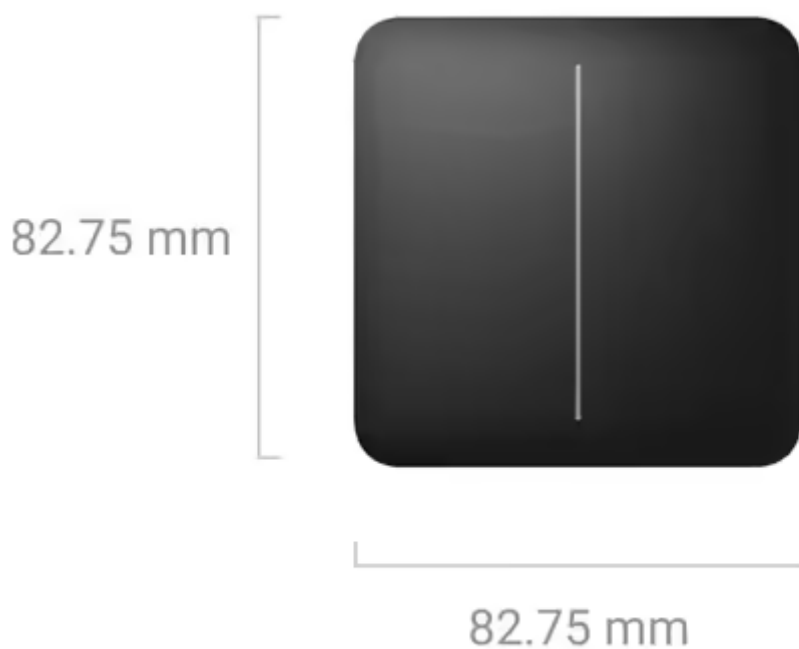
SoloButton (2-gang) – $82.75 \times 82.75 \times 10.26$ mm

CenterButton (1-gang / 2-way) – $82 \times 70.53 \times 10.26$ mm

CenterButton (2-gang) – $82 \times 70.53 \times 10.26$ mm

SideButton (1-gang / 2-way) – $82 \times 76.19 \times 10.26$ mm

SideButton (2-gang) – $82 \times 76.19 \times 10.26$ mm



82 mm



70.53 mm

82 mm



76.19 mm




10.26 mm

Complete set

Depends on kit


Additional information

Compliance with standards

Learn more 

Warranty

24 months

Learn more 

Subscribe

Subscribe to our emails about secure life. No spam.



Software



Available on
App Store



Available on
Google Play

Company

[About](#)

[Why Ajax](#)

[Support](#)

[How it works](#)

[For partners](#)

[Blog](#)

[Events](#)

[Press page](#)

[Careers](#)

Products

[All products](#)

[Scenarios](#)

[Build your system](#)

[Reviews](#)


[Suggested features](#)


[CMS connection](#)

[Enterprise API](#)

[Compliance with standards](#)

Request extra help

 support@ajax.systems

 [@AjaxSystemsSupport_Bot](#)

[Privacy policy](#)

[Anti-Spam Policy](#)

[End user agreement](#)

[Warranty](#)

© 2022 AJAX SYSTEMS CH. All rights reserved