

# LightSwitch

Smart switch



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## Single switch

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

## Components

### Relay



LightCore (1-gang)

### Buttons



SoloButton (1-gang / 2-way)

Relay for a 1-gang switch.



LightCore (2-gang)

Relay for a 2-gang switch.



LightCore (2-way)

Relay for a 2-way switch.

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



SoloButton (2-gang)

Button for a 2-gang switch.

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## Combined switch

LightSwitch

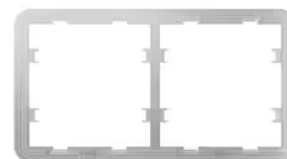
## Components

Relay



LightCore (1-gang)

Frames

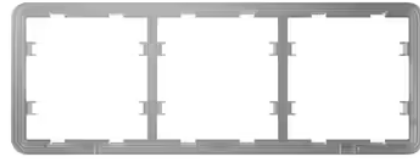


Frame (2 seats)

Relay for a 1-gang switch.



Frame for two switches.



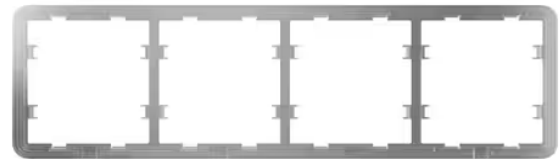
LightCore (2-gang)

Relay for a 2-gang switch.



Frame (3 seats)

Frame for three switches.



LightCore (2-way)

Relay for a 2-way switch.

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.

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## Button colours

### Black



### White

### Graphite



### Ivory



**Fog**



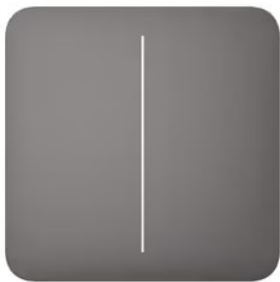
**Oyster**



**Gray**



**Olive**



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## 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

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## 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**

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## 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.

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## 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](#)

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## 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.

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## 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)

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## 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

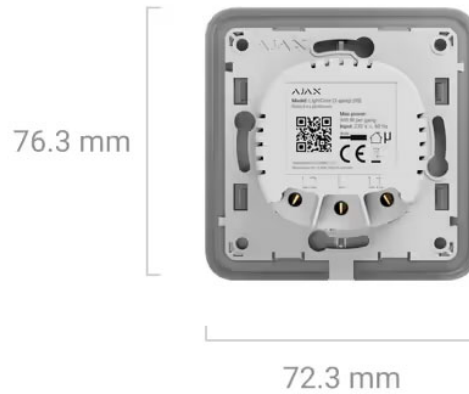
## Dimensions

### 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

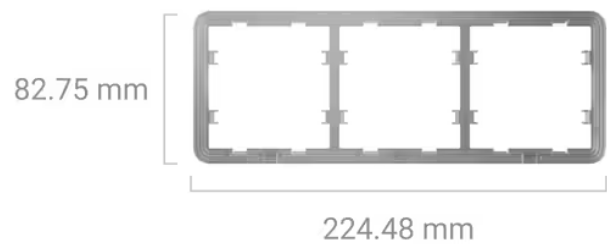
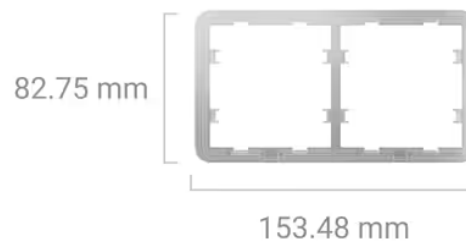


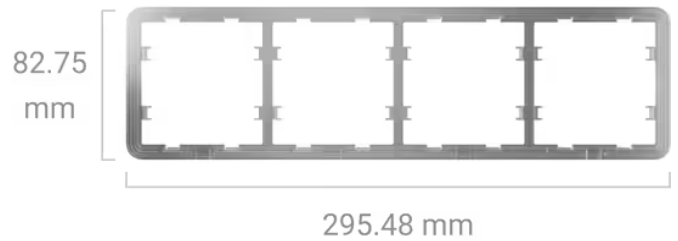
### Frames

Frame (2 seats) – 82.75 × 153.48 × 6.3 mm

Frame (3 seats) – 82.75 × 224.48 × 6.3 mm

Frame (4 seats) – 82.75 × 295.48 × 6.3 mm





**Buttons**

SoloButton (1-gang / 2-way) – 82.75 × 82.75 × 10.26 mm

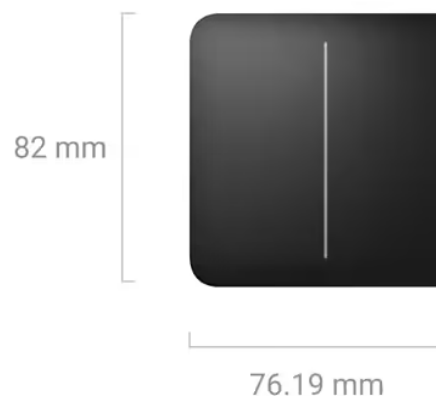
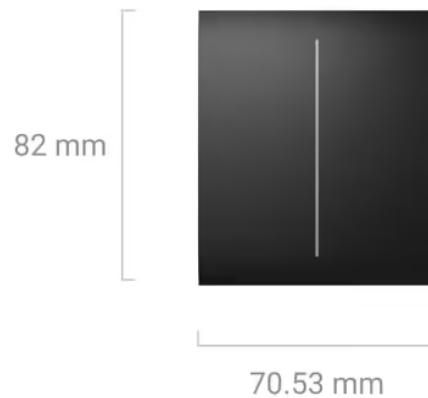
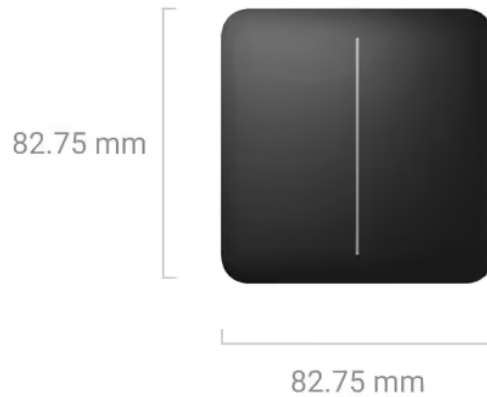
SoloButton (2-gang) – 82.75 × 82.75 × 10.26 mm

CenterButton (1-gang / 2-way) – 82 × 70.53 × 10.26 mm

CenterButton (2-gang) – 82 × 70.53 × 10.26 mm

SideButton (1-gang / 2-way) – 82 × 76.19 × 10.26 mm

SideButton (2-gang) – 82 × 76.19 × 10.26 mm





10.26 mm

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## Complete set

Depends on kit

## Additional information

### Compliance with standards

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### Warranty

24 months

[Learn more](#)

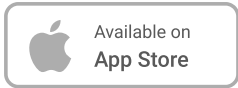
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