◈ Jeweller

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.
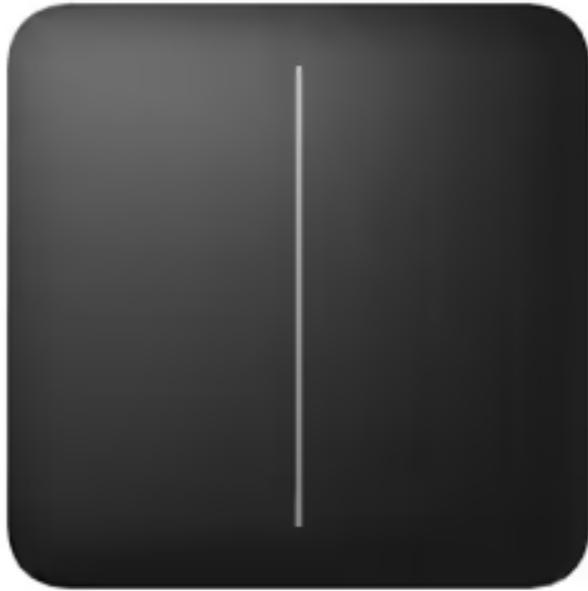
SoloButton (2-gang)

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
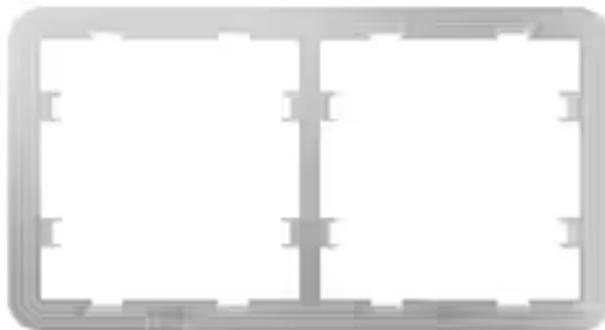
Frame (2 seats)

Frame for two switches.
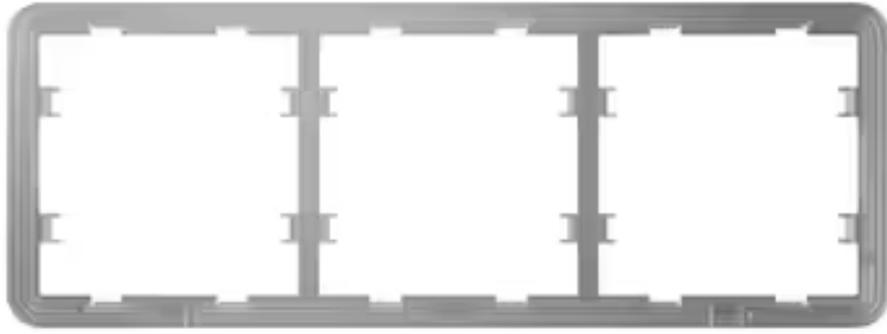
Frame (3 seats)

Frame for three switches.
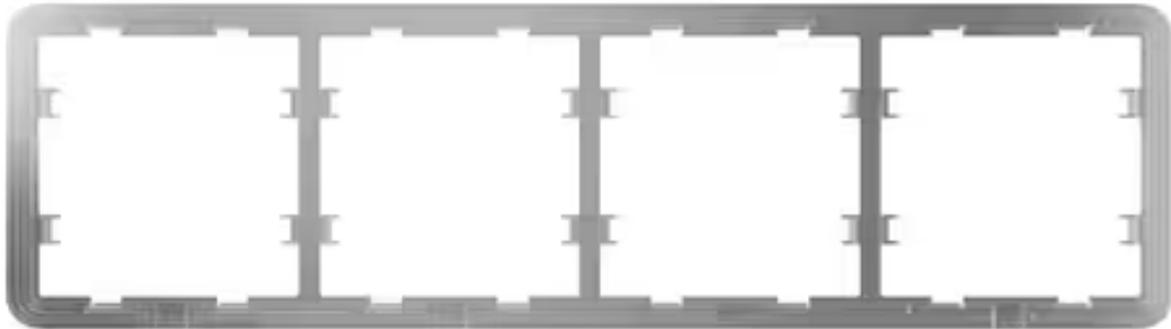
Frame (4 seats)

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
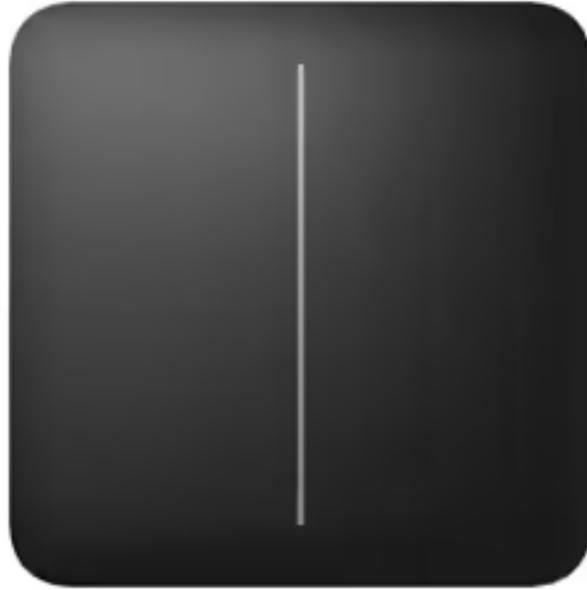
White

Fog

Gray

Graphite

Ivory

Oyster

Olive
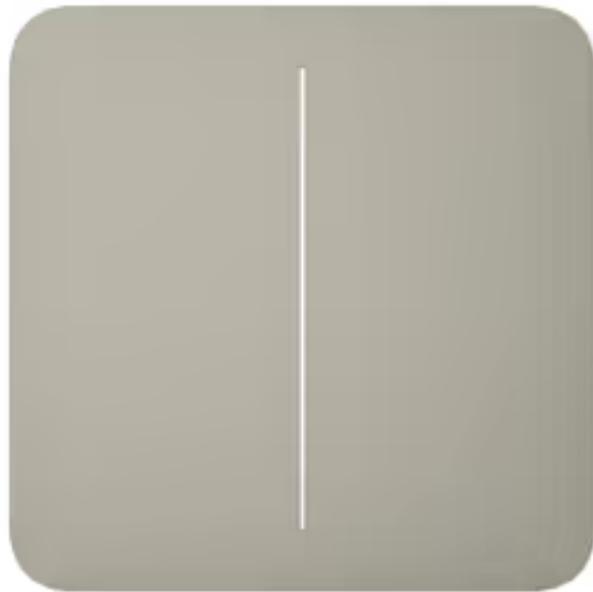
Compatibility

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.

(i) 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 (3 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

76.3 mm

72.3 mm

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

82.75 mm

153.48 mm

82.75 mm

224.48 mm

82.75 mm

295.48 mm

6.3 mm
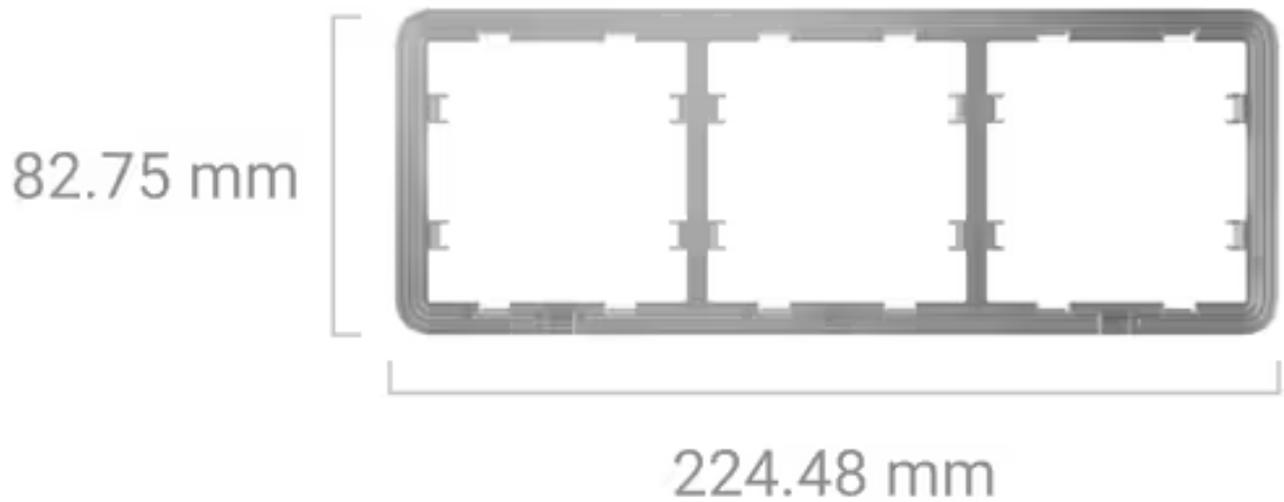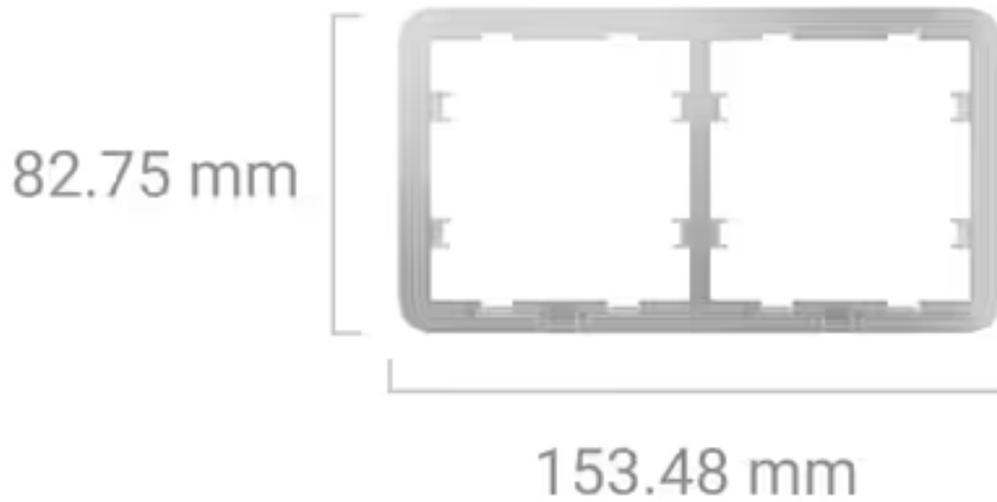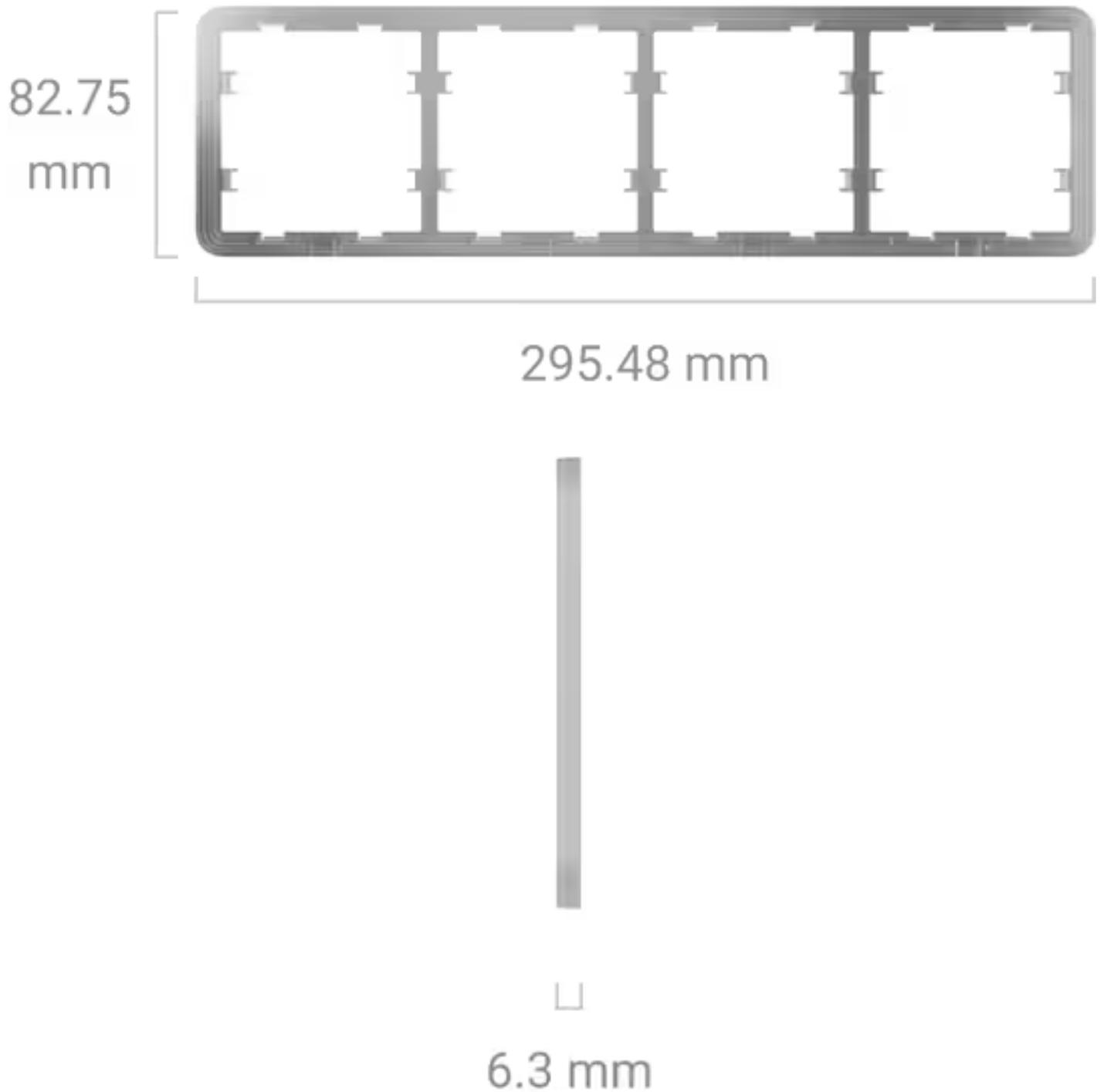
Buttons

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

82.75 mm

82.75 mm
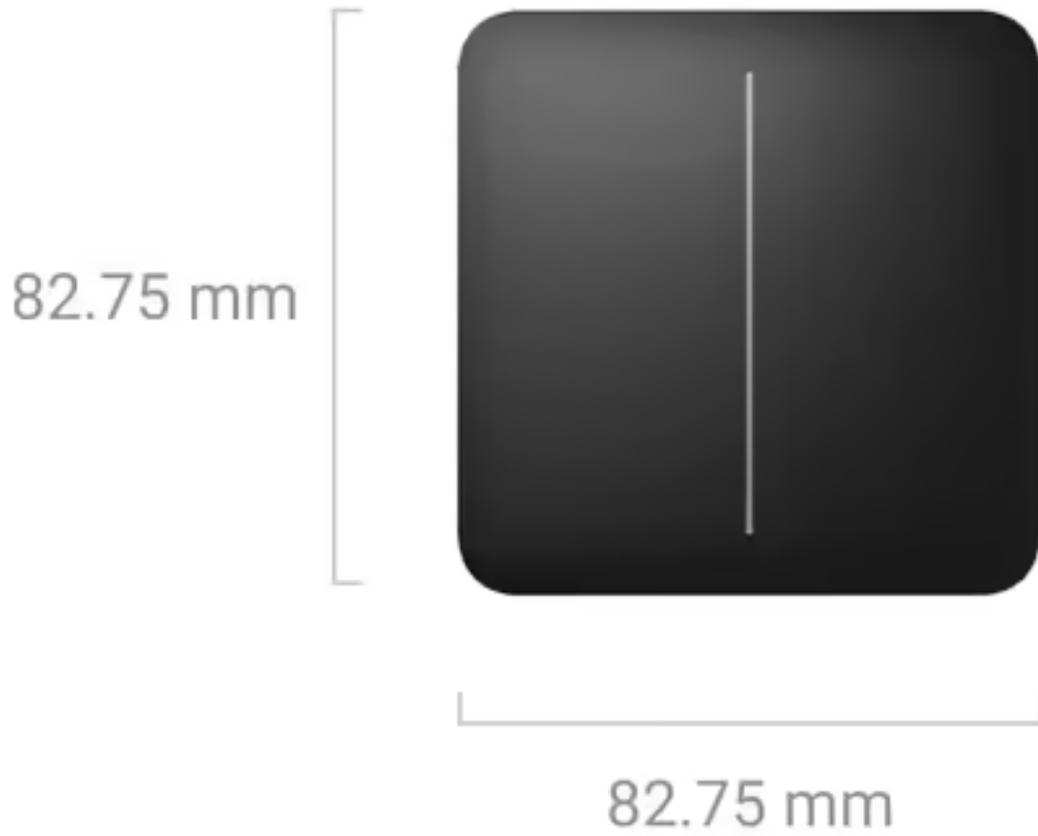
82 mm

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

User manual

Learn more

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