Tech specs

LightSwitch (3-way) [120] Jeweller

Smart touch 3-way light switch

Device compatibility

Check

Components

Relay

Controls the power of a lighting appliance.

LightCore (3-way) [120] Jeweller

Touch-sensitive panels

SoloButton (1-gang) [120]

It is used when the switch is installed as a separate device. SoloButton consists of a front panel and a frame, coming as one component.

CenterButton (1-gang) [120]

It is used when the switch is installed between the device set.

SideButton (1-gang) [120]

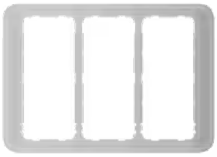
It is used when the switch is installed on the right or left of the device set.

Frames

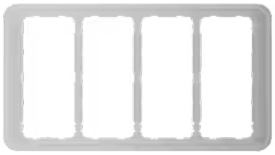
Frames for two, three, four, and five Ajax switches.

Frame (2 seats) [120]

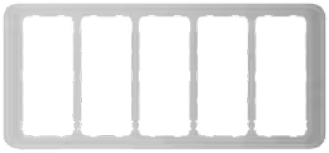
Frame (3 seats) [120]



Frame (4 seats) [120]



Frame (5 seats) [120]



Configuration

Single switch

LightSwitch (3-way) [120] Jeweller is installed as a separate device.

Combined switch

LightSwitch (3-way) [120] Jeweller is combined as a set with other Ajax smart switches and installed into Frame side by side.

Touch-sensitive panel colors

Black

RAL 9005

Graphite

RAL 7024

White

RAL 9003

Ivory

RAL 1013

Fog

RAL 7047

Oyster

RAL 9002

Grey

RAL 7004

Olive

RAL 7044

RAL colors match actual colors as much as possible. However, they may slightly differ, so please only use them as a guide to the color choice.

Communication

Jeweller communication technology

Proprietary wireless communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced anti-sabotage.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote control and configuration in Ajax apps.

Learn more

Frequency bands

905.0–926.5 MHz

Maximum effective radiated power (ERP)

up to 20 mW

Radio signal modulation

GFSK

Radio communication range

up to 1,100 m

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

Calculate radio communication range at the facility

Encrypted communication

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

Frequency hopping

To prevent radio interference and jamming.

Learn more

Wings communication technology

Proprietary wireless communication technology to update the firmware.

Key features:

- Two-way communication.
- Advanced anti-sabotage.
- Block encryption featuring a dynamic key.
- Data packages reload in case of transmission errors.
- Data packages delivery check.

Learn more

Frequency bands

905.0–926.5 MHz

Radio communication range

up to 1,100 m

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

Calculate radio communication range at the facility

Encrypted communication

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

Frequency hopping

To prevent radio interference and jamming.

Learn more

Key features

Automation scenarios

- By arming/disarming
- By schedule
- By alarm
- By temperature, humidity, or CO_2 concentration*
- By touching another LightSwitch / by pressing Button

Learn more

* Scenarios by humidity and CO_2 concentrations are available when LifeQuality Jeweller is added to the system.

Operation without a neutral wire

LightSwitch (3-way) [120] Jeweller only needs a line (hot) wire to operate.

Minimum load power

20 W

The value is calculated for LED light appliances.

Contactless touch-sensitive panel

LightSwitch (3-way) [120] Jeweller is activated when a hand gets as close as 15 mm from the panel.

Night backlight

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

Protection against incompatible appliances

Triggers if lighting appliances have insufficient power (up to 20 W). If protection is triggered, LightSwitch (3-way) [120] Jeweller turns off the load and sends a notification to Ajax apps. For low-power lighting appliances, the kit includes a capacitor.

Recommendations

The device is designed for indoor use only. A professional electrician should

It is recommended to install a bundled capacitor to ensure stable operation of

install the device.

LightSwitch (3-way) [120] Jeweller and lighting appliance.

Sabotage protection

Protection against spoofing

device authentication

Communication loss detection

after 36 s

Detection time depends on the Jeweller or Jeweller/Fibra settings.

Learn more

Power supply

Power supply voltage

120 V~, 60 Hz

The device does not need a neutral wire to operate.

Average consumption

up to 200 mW

Maximum power

600 W

For LightCore (3-way) [120] Jeweller.

Maximum load current

5 A

Overcurrent protection

more than 5 A

If protection is triggered, LightSwitch (3-way) [120] Jeweller turns off the load and sends a notification to Ajax apps.

Temperature protection

more than +60 °C

If protection is triggered, LightSwitch (3-way) [120] Jeweller turns off the load 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

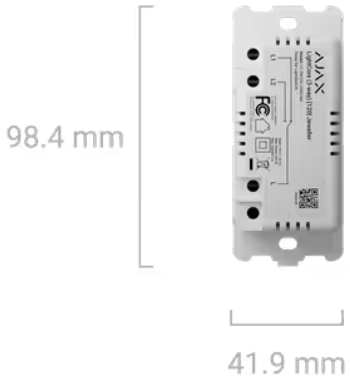
Form factor of the switch

NA form factor (120)

Dimensions

Relay

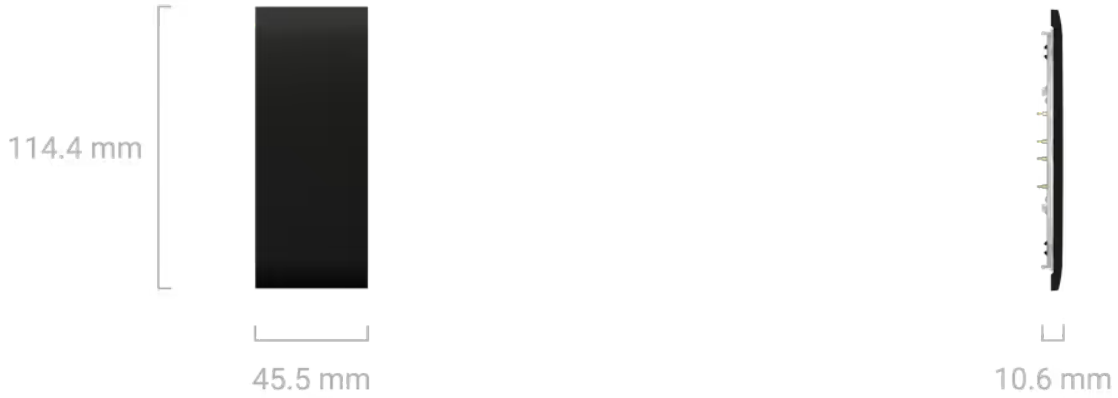
LightCore (3-way) [120] Jeweller — 98.4 × 41.9 × 33.4 mm



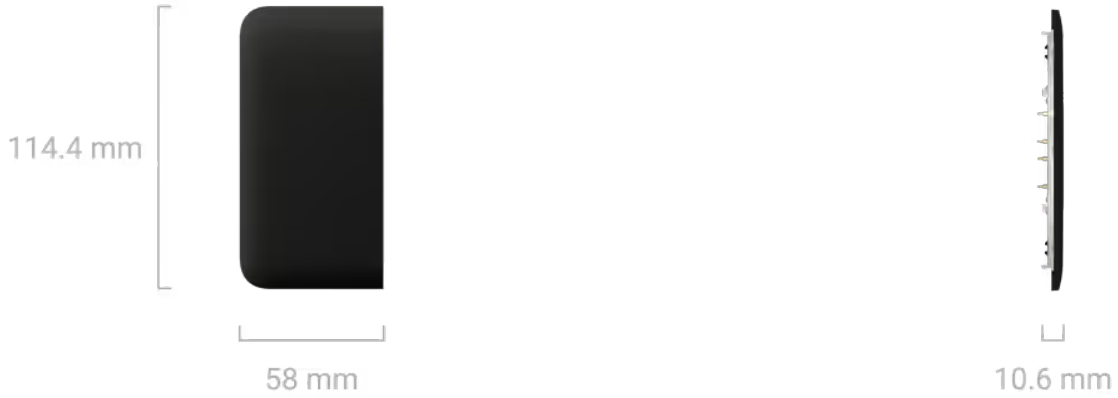
Touch-sensitive panels

SoloButton (1-gang) [120] — 115 × 71 × 10.6 mm

CenterButton (1-gang) [120] — 114.4 × 45.5 × 10.6 mm

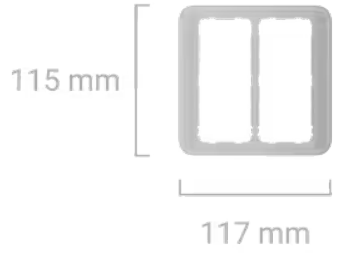


SideButton (1-gang) [120] — 114.4 × 58 × 10.6 mm

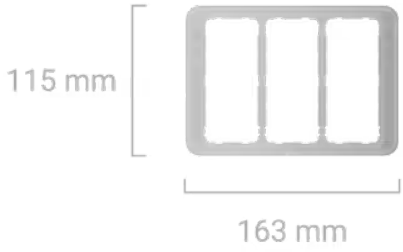


Frames

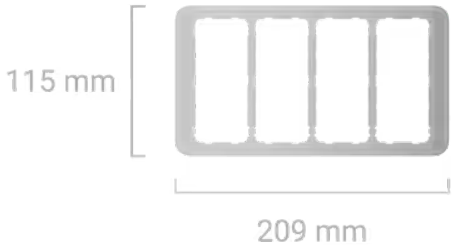
Frame (2 seats) [120] — 115 × 117 × 6 mm



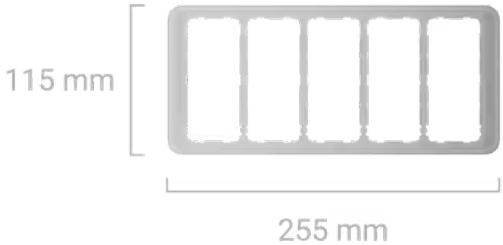
Frame (3 seats) [120] — 115 × 163 × 6 mm



Frame (4 seats) [120] — 115 × 209 × 6 mm



Frame (5 seats) [120] — 115 × 255 × 6 mm



Weight

Relay

LightCore (3-way) [120] Jeweller — 69 g

Touch-sensitive panels

SoloButton (1-gang) [120] — 55 g
CenterButton (1-gang) [120] — 31 g
SideButton (1-gang) [120] — 34 g

Frames

Frame (2 seats) [120] — 22 g
Frame (3 seats) [120] — 28 g
Frame (4 seats) [120] — 35 g
Frame (5 seats) [120] — 41 g

Complete set

LightSwitch (3-way) [120] Jeweller is a prefabricated device, with each component available for separate purchase. Components are easily installed by attaching to each other.

Additional information

Compliance with standards

Learn more

User manual

Learn more

Warranty

24 months

Learn more

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Trustpilot
Rating 4.7

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Available on Google Play

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