

Tech specs

# LightSwitch (1-gang) Jeweller

Smart touch 1-gang light switch



Device compatibility

Check

Components

## Relay

## LightCore (1-gang) Jeweller

Relay for a 1-gang switch.



## LightCore (1-gang) vertical Jeweller

Relay for a vertical 1-gang switch.



## Touch-sensitive panels

## SoloButton (1-gang)

It is used when the 1-gang switch is installed as a separate device. SoloButton consists of the front panel and the frame, coming as one component.



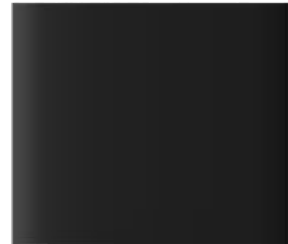
### CenterButton (1-gang)

It is used when the 1-gang switch is installed between the device set.



### CenterButton (1-gang) vertical

It is used when the vertical 1-gang switch is installed between the device set.



### SideButton (1-gang)

It is used when the 1-gang switch is installed on the right or left of the device set.



### SideButton (1-gang) vertical

It is used when the vertical 1-gang switch is installed on the top or bottom of the device set.

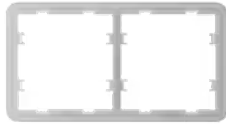


## Frames

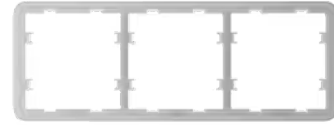
Frames for two, three, four, and five Ajax switches and outlets in any combination<sup>1</sup>.

### Frame (2 seats)

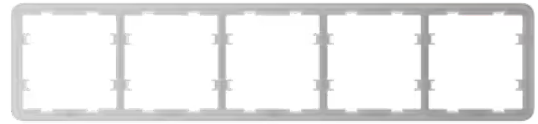
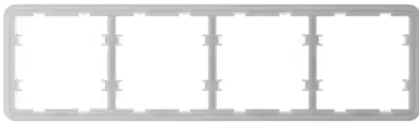
### Frame (3 seats)



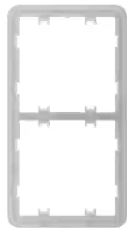
Frame (4 seats)



Frame (5 seats)



Frame (2 seats) vertical

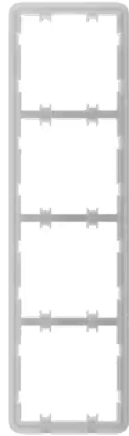


Frame (3 seats) vertical



Frame (4 seats) vertical

Frame (5 seats) vertical



1 — Combinations with outlets are available only in horizontal orientation.

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## Configuration

### Single switch

LightSwitch (1-gang) Jeweller is installed as a separate device.



### Combined switch

LightSwitch (1-gang) Jeweller is combined as a set with Ajax smart switches and/or Outlet Jeweller devices and installed into Frame side by side.

**Learn more** >



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## Touch-sensitive panel colors

**Black**

RAL 9005



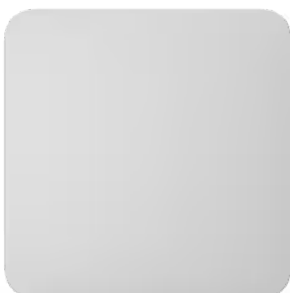
**Graphite**

RAL 7024



**White**

RAL 9003



**Ivory**

RAL 1013



**Fog**

RAL 7047

**Oyster**

RAL 9002

**Grey**

RAL 7004

**Olive**

RAL 7044



The RAL colors 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.

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## 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 configuration via 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

## Radio signal modulation

GFSK

## Radio communication range

up to 1,100 m



Between the device and a hub (or 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 featuring a dynamic key.

## Radio frequency hopping

Radio communication uses frequency hopping to prevent interception and jamming.

**Learn more** >

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## Key features

### Automation scenarios

- security mode change reactions
- scheduled actions
- alarm reactions
- temperature scenarios
- humidity scenarios<sup>2</sup>
- CO<sub>2</sub> concentration scenarios<sup>2</sup>
- by pressing another LightSwitch/Button

**Learn more** >

2 — Scenarios by humidity and CO<sub>2</sub> concentrations are available when LifeQuality Jeweller is added to the system.

## Operation without a neutral wire

LightSwitch only needs a live wire to operate.

## Power of switched device

from 5 to 600 W

## Contactless touch-sensitive 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 the 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 use only. A professional electrician should install the device.

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## 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](#) >

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## Power supply

### Power supply voltage

230 V~, 50/60 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) Jeweller and LightCore (1-gang) vertical Jeweller.

## Current protection

more than 2.6 A

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

## Temperature protection

more than +60 °C

If protection is triggered, LightSwitch turns off the 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

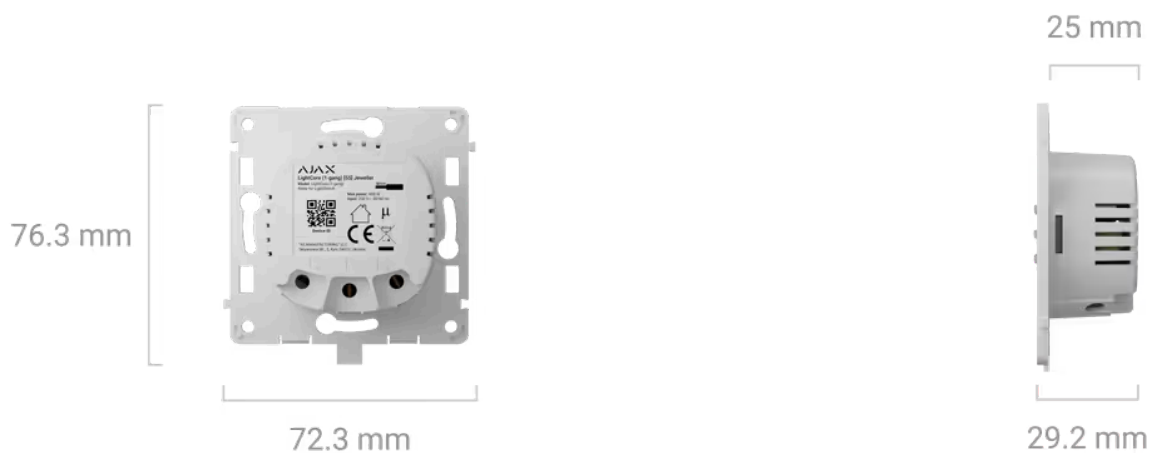
European type (55)

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## Dimensions

### Relay

LightCore (1-gang) Jeweller – 76.3 × 72.3 × 29.2 mm



LightCore (1-gang) vertical Jeweller – 72.3 × 76.3 × 29.2 mm

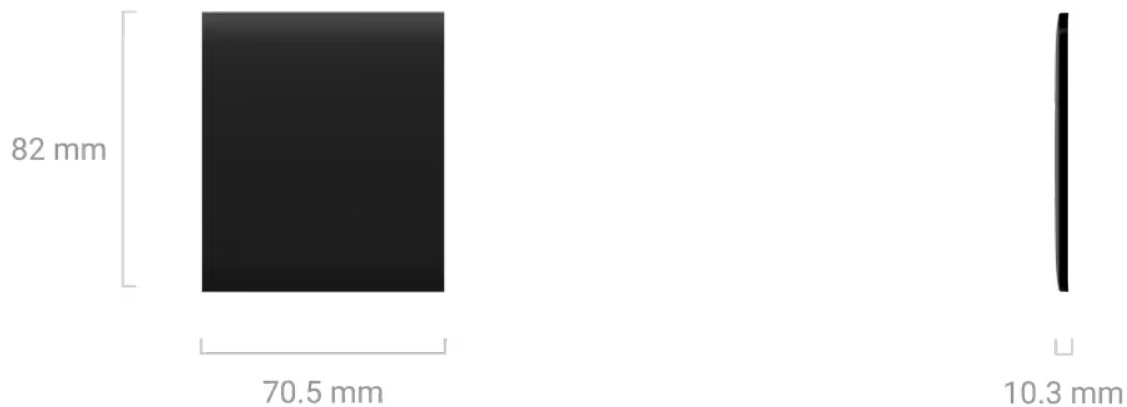


## Touch-sensitive panels

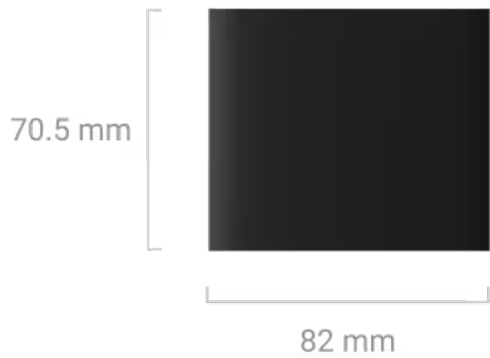
SoloButton (1-gang) —  $82.8 \times 82.8 \times 10.3$  mm



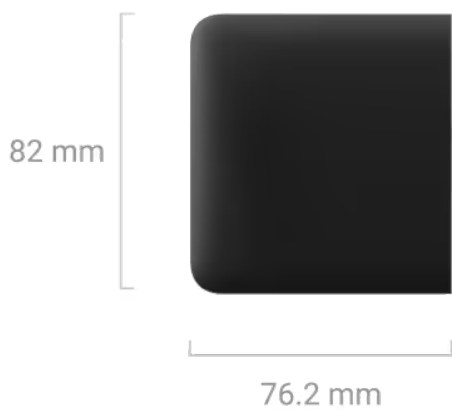
CenterButton (1-gang) —  $82 \times 70.5 \times 10.3$  mm



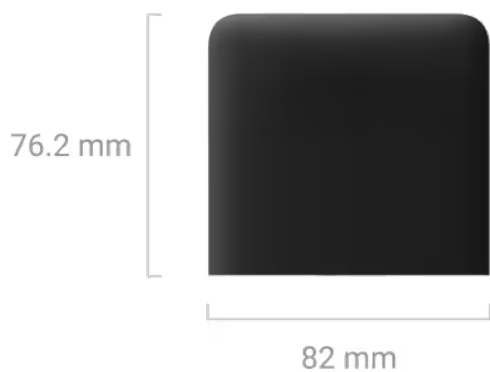
CenterButton (1-gang) vertical —  $70.5 \times 82 \times 10.3$  mm



SideButton (1-gang) – 82 × 76.2 × 10.3 mm

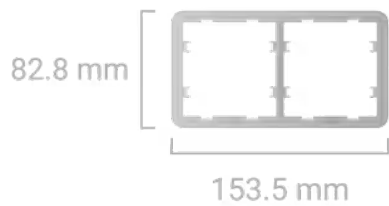


SideButton (1-gang) vertical – 76.2 × 82 × 10.3 mm

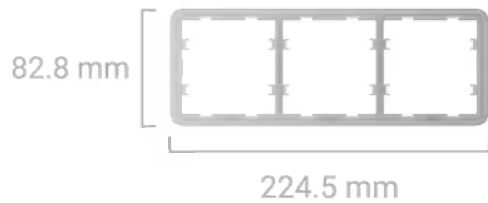


## Frames

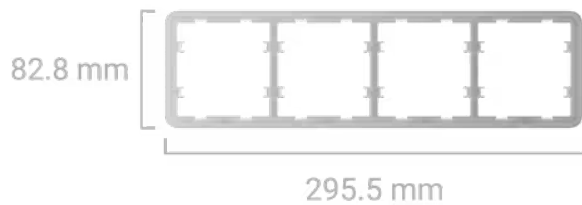
Frame (2 seats) – 82.8 × 153.5 × 6.3 mm



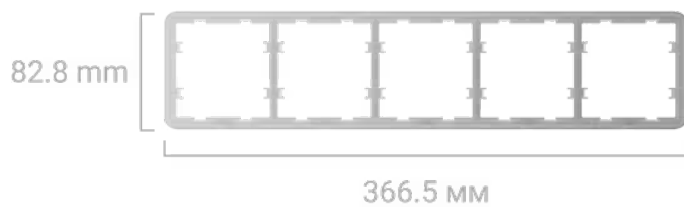
Frame (3 seats) – 82.8 × 224.5 × 6.3 mm



Frame (4 seats) – 82.8 × 295.5 × 6.3 mm

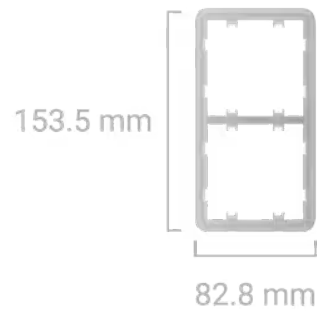


Frame (5 seats) – 82.8 × 366.5 × 6.3 mm

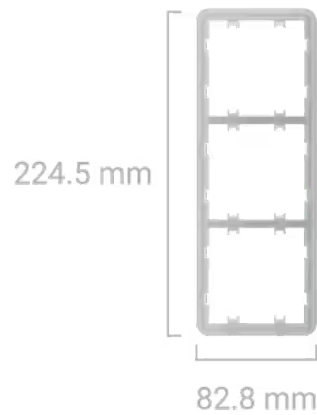


Frame (2 seats) vertical – 153.5 × 82.8 × 6.3 mm





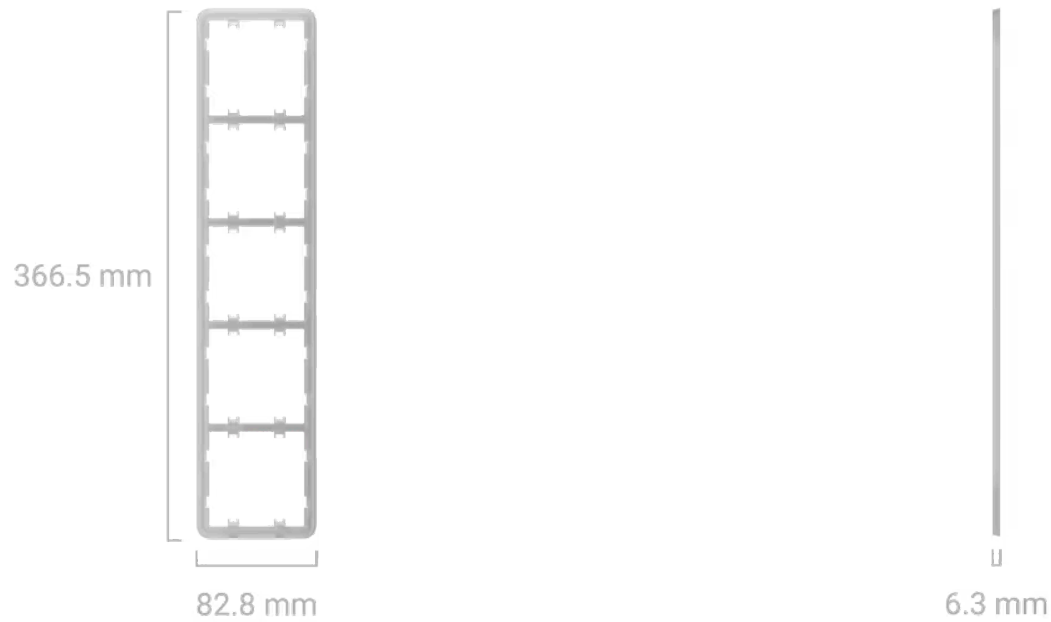
Frame (3 seats) vertical – 224.5 × 82.8 × 6.3 mm



Frame (4 seats) vertical – 295.5 × 82.8 × 6.3 mm



Frame (5 seats) vertical – 366.5 × 82.8 × 6.3 mm



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## Weight

### Relay

LightCore (1-gang) Jeweller — 46 g

LightCore (1-gang) vertical Jeweller — 46 g

### Touch-sensitive panels

SoloButton (1-gang) — 45 g

CenterButton (1-gang) — 31 g

CenterButton (1-gang) vertical — 31 g

SideButton (1-gang) — 32 g

SideButton (1-gang) vertical — 32 g

### Frames

Frame (2 seats) – 16 g  
Frame (2 seats) vertical – 16 g  
Frame (3 seats) – 22 g  
Frame (3 seats) vertical – 22 g  
Frame (4 seats) – 28 g  
Frame (4 seats) vertical – 28 g  
Frame (5 seats) – 34 g  
Frame (5 seats) vertical – 34 g

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## Complete set

LightSwitch (1-gang) Jeweller is a prefabricated smart switch. All parts are purchased separately

Assemble LightSwitch kit >

## Certification and compliance with standards



LightSwitch (1-gang) Jeweller



[Declaration of Conformity](#)



### Декларація про відповідність (RoHs)



### Declaration of Conformity (Frame)



### Декларація про відповідність (Frame)



### Declaration of Conformity for LightSwitch vertical series



## LightCore (1-gang) [55] Jeweller

### Low Voltage Directive (LVD)

Certificate issued by MiCOM Labs

EN 60669-2-1:2004+AMD1:2009+AMD2:2010

EN 60669-1:2018

EN 62479:2010

### Electromagnetic Compatibility Directive (EMC)

Certificate issued by MiCOM Labs

EN 301 489-1 V2.2.3

EN 301 489-3 V2.1.1

### Radio Equipment Directive (RED)

Certificate issued by MiCOM Labs

EN 300 220-1 V3.1.1

EN 300 220-2 V3.2.1

### Restriction of Hazardous Substances Directive (RoHS)

Test report issued by Shenzhen NTEK Testing Technology Co.

EN IEC 63000:2018

### PSTI UK

Schedule 1



### Frame

### Restriction of Hazardous Substances Directive (RoHS)

Test report issued by Shenzhen NTEK Testing Technology Co.

EN IEC 63000:2018



### LightCore (1-gang) vertical [55] Jeweller

### Radio Equipment Directive (RED)

Certificate issued by TIMCO Engineering, Inc.

EN 300 220-1 V3.1.1 (2017-02)

EN 300 220-2 V3.2.1 (2018-06)

### Restriction of Hazardous Substances Directive (RoHS)

Certificate issued by TIMCO Engineering, Inc.

EN IEC 63000:2018

### Low Voltage Directive (LVD)

Certificate issued by TIMCO Engineering, Inc.

EN 62479:2010

EN 60669-2-1:2004+AMD1:2009+AMD2:2010

EN 60669-1:2018

### **Electromagnetic Compatibility Directive (EMC)**

Certificate issued by TIMCO Engineering, Inc.

EN 301 489-1 V2.2.3 (2019-11)

EN 301 489-3 V2.1.1 (2019-03)

EN 55032:2015+A1:2020

EN 55035:2017+A11:2020

EN IEC 61000-3-2:2019+A1:2021

EN 61000-3-3:2013+A2:2021



### **Frame vertical**

### **Restriction of Hazardous Substances Directive (RoHS)**

Test report issued by Shenzhen NTEK Testing Technology Co

EN IEC 63000:2018



### **SurfaceBox [55]**

### **Restriction of Hazardous Substances Directive (RoHS)**

Test report issued by Shenzhen NTEK Testing Technology Co.

EN IEC 63000:2018

### **Low Voltage Directive (LVD)**

Certificate issued by SLG-CPC Testlaboratory Co., Lt

EN IEC 60670-1:2021+A11:2021

## Additional information

### Compliance with standards

[Learn more](#) >

### User manual

[Learn more](#) >

### Warranty

24 months

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