Tech specs

Relay Jeweller

Wireless dry contact relay



Device compatibility

Check

Power supply

External power supply

7–24 V⎓

The relay does not supply additional power to devices connected to it.

Energy consumption

up to 1 W

In standby mode.

Cross-sectional area of the cable

0.75–1.5 mm² (22–14 AWG)

Maximum resistive load

up to 5 A at 24 V⎓

up to 13 A at 110–230 V~

Maximum inductive/capacitive load

up to 3 A at 24 V⎓

up to 8 A at 110–230 V~

Voltage protection

minimum — 6.5 V⎓

maximum — 36.5 V⎓

Once the supply voltage exceeds the specified levels, the relay turns off automatically.

Temperature protection

over +65 °C at the installation site

over +85 °C inside the relay

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

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 25 mW

Radio signal modulation

GFSK

Radio communication range

up to 1,000 m

Between the relay 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

Control via smartphone

The user can set up the relay configurations and receive notifications in an Ajax app.

Automation scenarios

- By arming/disarming
- By schedule
- By alarm
- By temperature
- By humidity[1]

- By CO_2 concentration[1]
- By touching LightSwitch / pressing Button

Learn more

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

Adjustable pulse duration

from 0.5 to 255 s

Operation modes

- pulse
- bistable

Contact state

- normally open
- normally closed

Recommendations

Suitable for indoor or outdoor use when installed in a hermetically sealed enclosure. It is recommended to mount Relay Jeweller on a DIN rail using DIN Holder, which is sold separately.

Buy DIN Holder

Sabotage protection

Protection against spoofing

device authentication

Communication loss detection

after 36 s

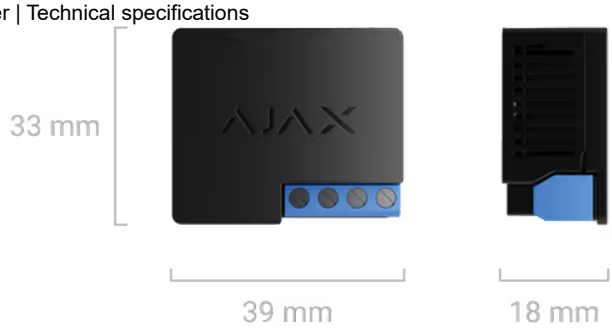
Detection time depends on the Jeweller or Jeweller/Fibra settings.

Learn more

Enclosure

Dimensions

39 × 33 × 18 mm



Weight

25 g

Operating temperature range

from −10 °C to +64 °C

Operating humidity

up to 75%

Protection class

IP20

Colors

Black



Complete set

Relay Jeweller

Double-sided adhesive tape

Quick start guide

Certification and compliance with standards



Relay Jeweller

Additional information

Compliance with standards

Learn more

User manual

Learn more

Warranty

24 months

Learn more

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Trustpilot

Rating 4.8

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Ajax Security System

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Ajax Desktop

Ajax PRO Desktop

Ajax Response

Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Ajax Media Player

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Solutions

Customer stories

Solutions by facility type

Commercial fire detection and alarm system

Wireless Grade 3 solution

Wired Grade 3 solution

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