

Tech specs

BASELINE

DoorProtect Plus U Jeweller

Wireless reed-switch opening detector with shock and tilt sensors



Device compatibility

Check

Communication

 Jeweller communication technology

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

Key features:

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

[Learn more >](#)

Frequency bands

868.0–868.6 MHz

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 1,200 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 is protected by block encryption featuring a dynamic key.

Frequency hopping

To prevent radio interference and jamming.

[Learn more >](#)

Detection

Sensitive elements

1 accelerometer

2 reed switches

The magnet can be installed to the left or right side of the detector.

Magnets

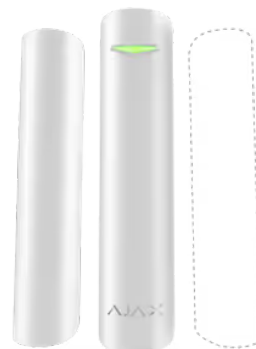
small and big one come in the set

The small magnet operates at a distance of up to 1 cm from the detector, and the big magnet – up to 2 cm.

Protection against reed switch chattering

The detector ignores vibrations lasting up to 0.15 s.

Reed switch

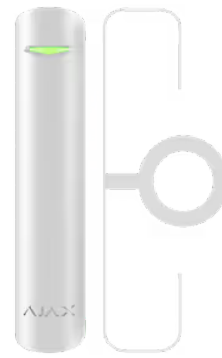


Additional detector connection

Input to connect an additional detector

Wired detector with the normally closed (NC) contact type.

How to connect a third-party wired detector



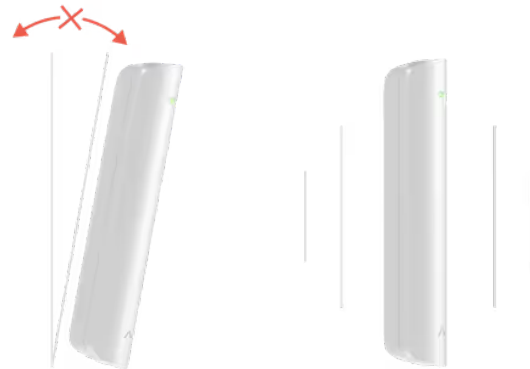
Shock sensor sensitivity

Shock sensor sensitivity

3 levels

Option to ignore single shock

Adjusted by PRO or user with admin rights in the Ajax app.



Tilt sensor activation threshold

from 5° to 25°

Adjusted by PRO or user with admin rights in the Ajax app.

Chime

The siren makes a special sound to notify that the opening detectors are triggered when the system is disarmed.

Learn more >

Recommendations

Do not install the detector using both magnets at the same time. The detector recognizes only one magnet on one side of the detector – left or right.
For indoor use only.

Sabotage protection

Tamper alarm

Notifications on attempts to detach the detector from the surface or remove it from the mounting panel.



[Learn more >](#)

Holding screw

to secure the detector on SmartBracket

Protection against spoofing

device authentication

Communication loss detection

after 36 s

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

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Power supply

Battery

1 × CR123A

Pre-installed.

Type

type C

Calculated battery life

up to 5 years

Operating voltage range

2.1–3.3 V_{DC}

Nominal operating voltage

3 V_{DC}

Quiescent current consumption at nominal voltage

0.013 mA

Maximum current consumption at nominal voltage

10.5 mA

Full battery capacity

1,600 mAh

Low battery voltage

2.5 V_{min}

Low battery recovery voltage

2.7 V_{min}

End-of-life battery voltage

2.1 V_{min}

Device is switched off.

End-of-life battery capacity

300 mAh

Manufacturer

Panasonic

Enclosure

Dimensions

103 × 22 × 21 mm



Dimensions of the big magnet

103 × 22 × 21 mm

Dimensions of the small magnet

55 × 11 × 6 mm

Weight of the white device

37 g



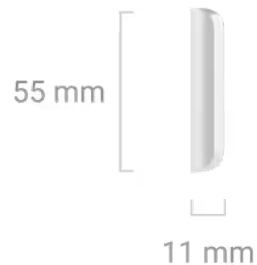
Weight of the black device

34 g



Operating temperature range

from -10 °C to +40 °C



Operating humidity

up to 75%

Protection class

IP50, IK04

Colors

Black



White



Complete set

DoorProtect Plus U Jeweller

SmartBracket mounting panel with holding screw

CR123A battery (pre-installed)

Big magnet

Small magnet

Outside-mounted terminal clamp

Installation kit

Quick start guide

Certification and compliance with standards



DoorProtect Plus U Jeweller



Additional information

Compliance with standards

[Learn more >](#)

User manual

[Learn more >](#)

Warranty

24 months


[Learn more >](#)

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Rating 4.8

4,500,000

people worldwide under Ajax protection

 Suggest a feature

Products

- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Wireless Grade 3 solution
- Video surveillance solution
- Integration with Yale smart locks
- Upgrades and retrofits
- Why Ajax
- How it works

Software

- Ajax Security System
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax TV
- Ajax Translator PRO
- Ajax Cloud Signaling
- Ajax Media Player
- Scenarios



Support

- Manuals and articles
- Compliance with standards

Tools

- Ajax kit configurator
- Ajax device compatibility
- CMS software compatibility
- Ajax Services availability
- Video storage calculator
- Video device calculator
- Battery life calculator
- Radio communication range calculator
- Switches and outlets configurator
- Fibra power supply calculator
- All web tools

Monitoring solutions and integrations

- Intrusion alarm monitoring
- Video monitoring and visual alarm verification

[Audio alarm verification](#)

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