

Tech specs

BASELINE

MotionProtect Curtain Jeweller

Wireless IR curtain motion detector



Device compatibility

Check

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 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Radio communication range

up to 1,700 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 >

Detection

Sensitive element

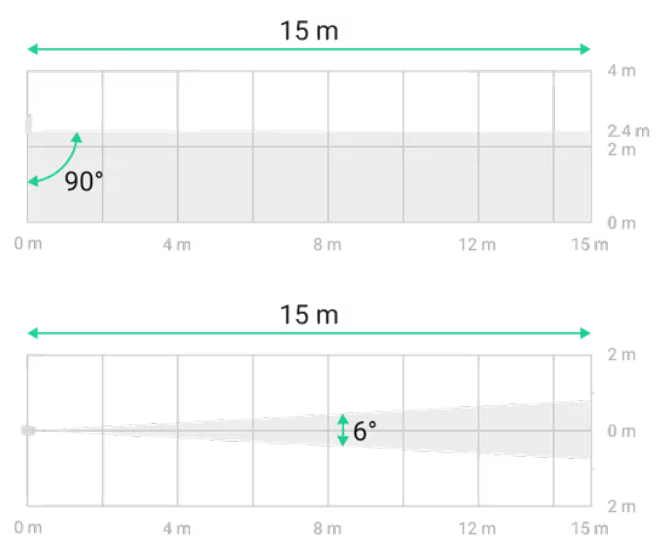
2 × PIR sensor

Motion detection distance

up to 6–15 m

When installed at a height of 2.4 m, and the **Correlation Signal Processing** feature is **disabled**. It also depends on the sensitivity level adjusted in the device settings.

up to 6–8 m



When installed at a height of 2.4 m, and the **Correlation Signal Processing** feature is **enabled**. It also depends on the sensitivity level adjusted in the device settings.

Learn more >

Motion detection angles

horizontal — 6°

vertical — 90°

Motion detection speed

from 0.3 to 2.0 m/s

The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility.

Sensitivity

3 levels

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

Pet immunity

Install the detector upside down to prevent it reacting to domestic animals.

Temperature compensation

Effective motion detection at temperatures from -10 °C to +40 °C.

[Learn more](#) >

Recommendations

It is recommended to install the detector at a height of 2.4 m. The device is designed 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](#) >

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

Battery

CR123A

Pre-installed.

Type

type C

Calculated battery life

up to 3 years

[Learn more](#) >

Detector's operating voltage range

2.1–3.3 V $\approx$

Detector's nominal operating voltage

3 V $\approx$

Quiescent detector's current consumption at nominal voltage

41 μ A

Maximum detector's current consumption at nominal voltage

60.4 mA

Full battery capacity

1,600 mAh

Low battery voltage

2.5 V $\approx$

Low battery recovery voltage

2.7 V $\approx$

End-of-life battery voltage

2.1 V $\approx$

Device is switched off.

End-of-life battery capacity

300 mAh

Manufacturer

Huiderui

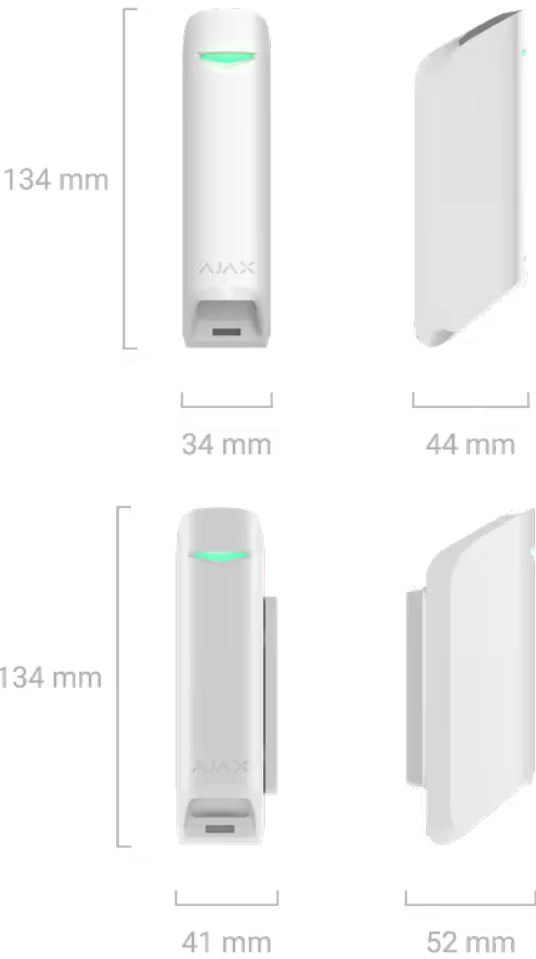
Enclosure

Dimensions

134 × 44 × 34 mm

with bracket

134 × 52 × 41 mm



Weight

118 g

Operating temperature range

from -10 °C to +40 °C

Operating humidity

up to 75%

Protection class

IP54

Colors

Black

White



Complete set

MotionProtect Curtain Jeweller

SmartBracket mounting panel

Bracket

Installation kit

CR123A battery (pre-installed)

Quick start guide

Certification and compliance with standards



MotionProtect Curtain Jeweller



Additional information

Compliance with standards

Learn more >

User manual

Learn more >

Warranty

24 months

Learn more >

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Subscribe to our emails about secure life. No spam.

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Request extra help

- support@ajax.systems
- @AjaxSystemsSupport_Bot
- Send a request





Rating 4.8

4,500,000
people worldwide under Ajax protection

Suggest a feature



Intrusion protection

Video surveillance

Fire and life safety

Comfort and automation

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Upgrades and retrofits

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How it works

Company

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Ajax Security System

Ajax PRO: Tool for Engineers

Ajax Desktop

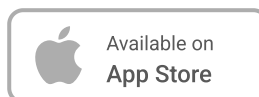
Ajax PRO Desktop

Ajax TV

Ajax Translator PRO

Ajax Cloud Signaling

Scenarios



Support

Manuals and articles

Compliance with standards

Tools

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CMS software compatibility

Ajax Services availability

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