

AJAX DoorProtect Opening Detector With Shock And Tilt Sensor



AJAX DoorProtect Opening Detector With Shock And Tilt Sensor User Manual

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AJAX

AJAX DoorProtect Opening Detector With Shock And Tilt Sensor



Specifications

- Product Name: DoorProtect
- Type: Wireless door and window opening detector
- Usage: Indoor
- Battery Life: Up to 7 years
- Maximum Openings Detection: More than 2 million
- Communication Protocol: Jeweller radio protocol
- Communication Range: Up to 1,200 m (line of sight)

Product Usage Instructions

Functional Elements

1. DoorProtect opening detector
2. Big magnet (operates up to 2 cm from the detector)
3. Small magnet (operates up to 1 cm from the detector)
4. LED indicator
5. SmartBracket mounting panel (slide down to remove)
6. Perforated part of the mounting panel for tamper triggering
7. Socket for connecting third-party wired detectors
8. QR code with device ID for Ajax system integration
9. Device on/off button
10. Tamper button for security alerts

Operating Principle

Attach the magnet to the RIGHT of the detector. A small magnet works at a distance of 1 cm, and the big one up to 2 cm. After activation, DoorProtect immediately transmits the alarm signal to the hub.

Pairing the Detector

Before starting pairing:

1. Install Ajax app on your smartphone and create an account.
2. Add the hub to the app and create at least one room.
3. Ensure hub is armed and has internet connection.

To pair the detector with the hub:

1. Select Add Device option in Ajax app.
2. Name the device, scan/write manually the QR Code, and select the location room.
3. Select Add — countdown will begin.
4. Switch on the device.

The detector must be within the coverage area of the hub's wireless network for detection and pairing to occur.

FAQ

Q: How long does the battery of DoorProtect last?

A: The battery can last up to 7 years under normal usage conditions.

Q: How far can DoorProtect detect openings?

A: DoorProtect can detect openings up to a distance of 2 cm using the big magnet and 1 cm using the small magnet.

Q: Can DoorProtect be used with third-party security systems?

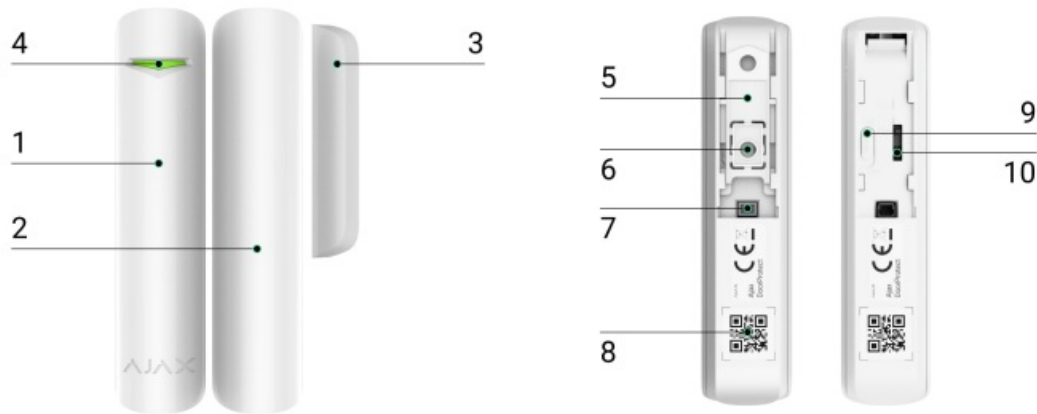
A: Yes, using cartridge or ocBridge Plus integration modules, DoorProtect can be integrated into third-party security systems.

DoorProtect

is a wireless door and window opening detector designed for indoor use. It can operate up to 7 years from a pre-installed battery and is capable of detecting more than 2 million openings. DoorProtect has a socket for connecting an external detector.

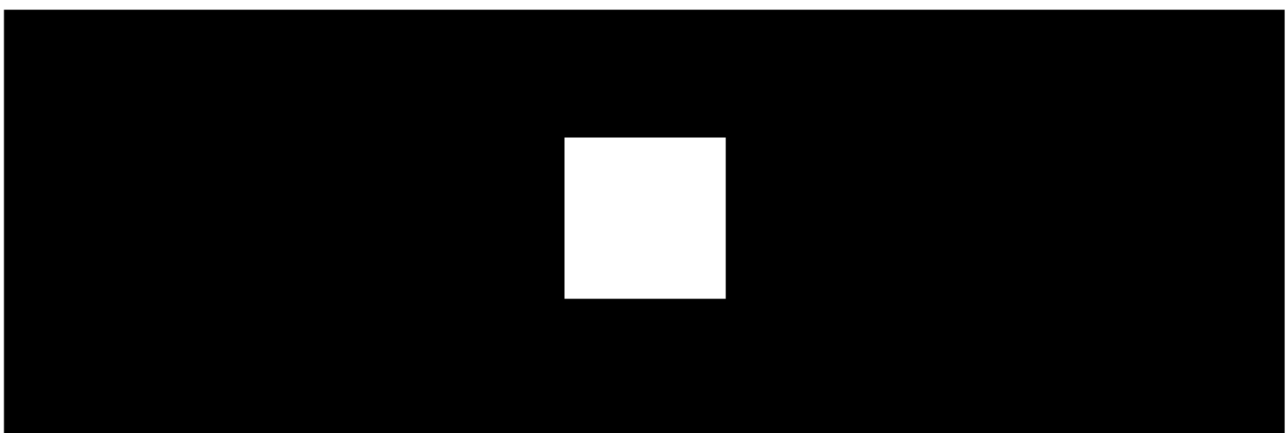
The functional element of DoorProtect is a sealed contact reed relay. It consists of ferromagnetic contacts placed in a bulb that form a continuous circuit under the effect of a constant magnet. DoorProtect operates within the Ajax security system, connecting via the protected Jeweller radio protocol. The communication range is up to 1,200 m in the line of sight. Using the cartridge or ocBridge Plus integration modules, DoorProtect can be used as part of third-party security systems. The detector is set up via Ajax apps for iOS, Android, macOS and Windows. The app notifies user of all events through push notifications, SMS and calls (if activated). The Ajax security system is self-sustaining, but the user can connect it to the central monitoring station of a private security company. Buy opening detector DoorProtect

Functional Elemente



1. DoorProtect opening detector.
2. Big magnet. It operates at a distance of up to 2 cm from the detector and should be placed to the right of the detector.
3. Small magnet. It operates at a distance of up to 1 cm from the detector and should be placed to the right of the detector.
4. LED indicator
5. SmartBracket mountin panel. To remove it, slide the panel down.
6. Perforated part of the mounting panel. It is required for the tamper triggering in case of any attempt to dismantle the detector. Don't break it out.
7. Socket for connecting a third-party wired detector with an NC contact type
8. QR code with the device ID to add the detector to an Ajax system.
9. Device on/off button.
10. Tamper button. Triggered when there is an attempt to tear the detector off the surface or remove it from the mounting panel.

Operating Principle



00:00

00:12

- DoorProtect consists of two parts: the detector with a sealed contact reed relay, and the constant magnet. Attach the detector to the door frame, while the magnet can be attached to the moving wing or sliding part of the door. If the sealed contact reed relay is within the coverage area of the magnetic field, it closes the circuit,

which means that the detector is closed. The opening of the door pushes out the magnet from the sealed contact reed relay and opens the circuit. In such a way, the detector recognizes the opening.

- Attach the magnet to the RIGHT of the detector.
- A small magnet works at a distance of 1 cm, and the big one — up to 2 cm. After actuation, DoorProtect immediately transmits the alarm signal to the hub, activating the sirens and notifying the user and security company.

Pairing the Detector

Before starting pairing:

1. Following the hub instruction recommendations, install the Ajax app on your smartphone. Create an account, add the hub to the app, and create at least one room.
2. Switch on the hub and check the internet connection (via Ethernet cable and/or GSM network).
3. Make sure that the hub is disarmed and does not update by checking its status in the app.

Only users with administrator rights can add the device to the hub.

How to pair the detector with the hub:

1. Select the Add Device option in the Ajax app.
2. Name the device, scan/write manually the QR Code (located on the body and packaging), and select the location room.



3. Select Add – the countdown will begin.
4. Switch on the device.



For detection and pairing to occur, the detector should be located within the coverage area of the wireless network of the hub (at the same facility). The request for connection to the hub is transmitted for a short period of time at the moment of switching on the device. If pairing with the hub failed, switch off the detector for 5 seconds and retry it. If the detector has paired with the hub, it will appear in the list of devices in the Ajax app. The update of the detector's statuses in the list depends on the detector ping interval set in the hub settings. The default value is 36 seconds.

States

The state screen contains information about the device and its current parameters. Find the DoorProtect states in the Ajax app:

1. Go to the Devices  tab.
2. Select DoorProtect from the list.

Parameter	Value
Temperature	<p>Temperature of the detector. It is measured on the processor and changes gradually.</p> <p>Acceptable error between the value in the app and the room temperature – 2°C.</p> <p>The value is updated as soon as the detector identifies a temperature change of at least 2°C.</p> <p>You can configure a scenario by temperature to control automation devices</p> <p>Learn more</p>
Jeweller Signal Strength	<p>Signal strength between the hub/range extender and the opening detector.</p> <p>We recommend installing the detector in places where the signal strength is 2–3 bars</p>
Connection via Jeweller	<p>Connection status between the hub/range extender and the detector:</p>



	<ul style="list-style-type: none"> • Online – the detector is connected with the hub/range extender • Offline – the detector has lost connection with the hub/range extender
ReX range extender name	<p>Radio signal range extender connection status.</p> <p>Displayed when the detector works via radio signal range extender</p>
Battery Charge	<p>Battery level of the device. Displayed as a percentage</p> <p>How battery charge is displayed in Ajax apps</p>
Lid	The tamper state, which reacts to detachment or damaging of the detector body
Primary Detector	The primary detector status
External Contact	The status of the external detector connected to DoorProtect
Always Active	<p>If the option is active, the detector is always in armed mode and notifies about alarms</p> <p>Learn more</p>
Chime	<p>When enabled, a siren notifies about opening detectors triggering in the Disarmed system mode</p> <p>What is chime and how it works</p>
Temporary Deactivation	<p>Shows the status of the device temporary deactivation function:</p> <ul style="list-style-type: none"> • No – the device operates normally and transmits all events. • Lid only – the hub administrator has disabled notifications about triggering on the device body.

	<ul style="list-style-type: none"> • Entirely — the device is completely excluded from the system operation by the hub administrator. The device does not follow system commands and does not report alarms or other events. • By number of alarms — the device is automatically disabled by the system when the number of alarms is exceeded (specified in the settings for Devices Auto Deactivation). The feature is configured in the Ajax PRO app. • By timer — the device is automatically disabled by the system when the recovery timer expires (specified in the settings for Devices Auto Deactivation). The feature is configured in the Ajax PRO app.
Alarm Reaction	
Operating Mode	<p>Shows how the detector reacts to alarms:</p> <ul style="list-style-type: none"> • Instant Alarm — the armed detector immediately reacts to a threat and raises the alarm. • Entry/Exit — when a delay is set, the armed device starts the countdown and doesn't raise the alarm even if triggered until the countdown ends. • Follower — the detector inherits the delays from Entry/Exit detectors. However, when the Follower is triggered individually, it immediately raises the alarm.
Delay When Entering, sec	<p>Entry delay (alarm activation delay) is the time you have to disarm the security system after entering the room</p> <p><u>What is delay when entering</u></p>
Delay When Leaving, sec	<p>Delay time when exiting. Delay when exiting (alarm activation delay) is the time you have to exit the room after arming the security system</p>

	<u>What is delay when leaving</u>
Night Mode Delay When Entering, sec	<p>The time of Delay When Entering in the Night mode. Delay when entering (alarm activation delay) is the time you have to disarm the security system after entering the premises.</p> <p><u>What is delay when entering</u></p>
Night Mode Delay When Leaving, sec	<p>The time of Delay When Leaving in the Night mode. Delay when leaving (alarm activation delay) is the time you have to exit the premises after the security system is armed.</p> <p><u>What is delay when leaving</u></p>
Firmware	The detector firmware version
Device ID	The device identifier
Device No.	Number of the device loop (zone)

Settings

To change the detector settings in the Ajax app:

1. Select the hub if you have several of them or if you are using the PRO app.
2. Go to the Devices  tab.
3. Select DoorProtect from the list.
4. Go to Settings by clicking on the .
5. Set the required parameters.
6. Click Back to save the new settings.

Setting	Value
First field	Detector name that can be changed. The name is displayed in the text of SMS and notifications in the event feed.

	The name can contain up to 12 Cyrillic characters or up to 24 Latin characters
Room	Selecting the virtual room to which DoorProtect is assigned. The name of the room is displayed in the text of SMS and notifications in the event feed
Alarm LED indication	<p>Allows you to disable the flashing of the LED indicator during an alarm. Available for devices with firmware version 5.55.0.0 or higher</p> <p>How to find the firmware version or the ID of the detector or device?</p>
Primary Detector	If active, DoorProtect primarily reacts to opening/closing
External contact	If active, DoorProtect registers external detector alarms
Always Active	<p>If the option is active, the detector is always in armed mode and notifies about alarms</p> <p>Learn more</p>
Alert with a siren if opening detected	If active, sirens added to the system are activated when the opening detected
Activate the siren if an external contact opened	If active, sirens added to the system are activated during an external detector alarm
Chime settings	<p>Opens the settings of Chime.</p> <p>How to set Chime What is Chime</p>
Alarm Reaction	
Operating Mode	<p>Specify how this device will react to alarms:</p> <ul style="list-style-type: none"> • Instant Alarm — the armed detector immediately reacts to a threat and raises the alarm. • Entry/Exit — when a delay is set, the armed device starts the countdown and doesn't



	<p>raise the alarm even if triggered until the countdown ends.</p> <ul style="list-style-type: none"> • Follower the detector inherits the delays from Entry/Exit detectors. However, when the Follower is triggered individually, it immediately raises the alarm.
Delay When Entering, sec	<p>Selecting delay time when entering. Delay when entering (alarm activation delay) is the time you have to disarm the security system after entering the room</p> <p><u>What is delay when entering</u></p>
Delay When Leaving, sec	<p>Selecting the delay time when exiting. Delay when exiting (alarm activation delay) is the time you have to exit the room after arming the security system</p> <p><u>What is delay when leaving</u></p>
Arm in Night Mode	<p>If active, the detector will switch to the armed mode when using the night mode</p>
Night Mode Delay When Entering, sec	<p>The time of Delay When Entering in the Night mode. Delay when entering (alarm activation delay) is the time you have to disarm the security system after entering the premises.</p> <p><u>What is delay when entering</u></p>
Night Mode Delay When Leaving, sec	<p>The time of Delay When Leaving in the Night mode. Delay when leaving (alarm activation delay) is the time you have to exit the premises after the security system is armed.</p> <p><u>What is delay when leaving</u></p>

Jeweller Signal Strength Test	<p>Switches the detector to the Jeweller signal strength test mode. The test allows you to check the signal strength between the hub and DoorProtect and determine the optimal installation site</p> <p><u>What is Jeweller Signal Strength Test</u></p>
Detection Zone Test	<p>Switches the detector to the detection area test</p> <p><u>What is Detection Zone Test</u></p>
Signal Attenuation Test	<p>Switches the detector to the signal fade test mode (available in detectors with firmware version 3.50 and later)</p> <p><u>What is Attenuation Test</u></p>
User Guide	<p>Opens DoorProtect User Guide in the Ajax app</p>
Temporary Deactivation	<p>Allows the user to disconnect the device without removing it from the system.</p> <p>Three options are available:</p> <ul style="list-style-type: none"> • No – the device operates normally and transmits all alarms and events • Entirely – the device will not execute system commands or participate in automation scenarios, and the system will ignore device alarms and other notifications • Lid only – the system will ignore only notifications about the triggering of the device tamper button <p><u>Learn more about temporary deactivation of devices</u></p> <p>The system can also automatically deactivate devices when the set number of alarms is exceeded or when the recovery timer expires.</p> <p><u>Learn more about auto deactivation of devices</u></p>
Unpair Device	<p>Disconnects the detector from the hub and deletes its settings</p>

How to set Chime

- Chime is a sound signal that indicates the triggering of the opening detectors when the system is disarmed. The feature is used, for example, in stores, to notify employees that someone has entered the building.
- Notifications are configured in two stages: setting up opening detectors and setting up sirens

Learn more about Chime

1. Go to the Devices  menu.
2. Select the DoorProtect detector.
3. Go to its settings by clicking the gear icon  in the upper right corner.
4. Go to the Chime Settings menu.
5. Select the events to be notified by the siren:
 1. If a door or a window is open.
 2. If an external contact is open (available if the External Contact option is enabled).
6. Select the chime sound (siren tone): 1 to 4 short beeps. Once selected, the Ajax app will play the sound.
7. Click Back to save the settings.
8. Set up the required siren.

How to set up a siren for Chime

Indication

Event	Indication	Note
Switching on the detector	Lights up green for about one second	
Detector connecting to the hub, ocBridge Plus and uartBridge	Lights up for a few seconds	
Alarm / tamper activation	Lights up green for about one second	Alarm is sent once in 5 seconds
Battery needs replacing	During the alarm, it slowly lights up green and slowly goes out	Replacement of the detector battery is described in the Battery Replacement manual

Functionality Testing

The Ajax security system allows for conducting tests to check the functionality of connected devices. The tests do not start immediately but within 36 seconds by default. The starting time depends on the ping interval (the paragraph on “Jeweller ” settings in hub settings).

- Jeweller Signal Strength Test
- Detection Zone Test
- Attenuation Tes

Installing the Detector

Selecting the location

Location of DoorProtect is determined by its remoteness from the hub and the presence of any obstacles between the devices hindering the radio signal transmission: walls, inserted floors, or large objects located within the room.

- The device was developed only for indoor use.
- Check the Jeweller signal strength at the installation point. With a signal level of one or zero divisions, we do not guarantee the stable operation of the security system. Move the device: even displacing it through 20 centimeters can significantly improve the signal strength. If the detector still has a low or unstable signal level after moving, use a radio signal range extender.

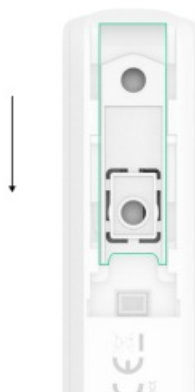
The detector is located either inside or outside of the doorcase. When installing the detector in the perpendicular planes (e.g. inside a doorframe), use the small magnet. The distance between the magnet and detector should not exceed 1 cm. When positioning the parts of DoorProtect in the same plane, use the bigmagnet. Its actuation threshold — 2 cm. Attach the magnet to the moving part of the door (window) to the right of the detector. The side to which the magnet should be attached is marked with an arrow on the detector's body. If necessary, the detector may be positioned horizontally.



Detector installation

Before installing the detector, make sure that you have chosen the optimal installation spot and that it complies with the terms of this manual. In order to install the detector:

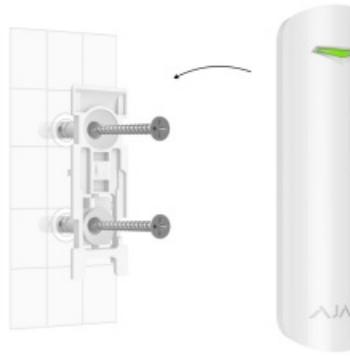
1. Remove the SmartBracket mounting panel from the detector by sliding it down.



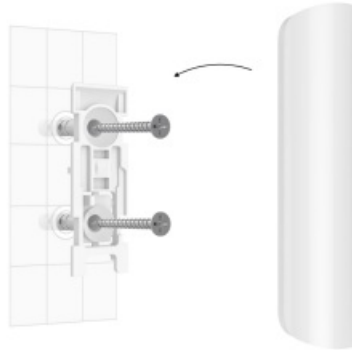
2. Temporarily fix the detector mounting panel to the selected installation spot using double-sided tape.
Double-sided tape is needed to secure the device only during testing upon installation. Do not use double-sided tape as a permanent fixation—the detector or magnet may unstick and drop. Dropping may cause false alarms or damage the device. And if someone tries to tear the device off the surface, the tamper alarm will not trigger while the detector is secured with tape.
3. Fix the detector on the mounting plate. Once the detector is fixed on the theSmartBracket panel, the device LED indicator will flash. It is a signal indicating that the tamper on the detector is closed. If the LED indicator is not activated during installing the detector onSmartBracket, check the tamper status in the Ajax app, the integrity of the fastening, and the tightness of the detector fixation on the panel.
4. Fix the detector on the mounting plate. Once the detector is fixed on the theSmartBracket panel, the device LED indicator will flash. It is a signal indicating that the tamper on the detector is closed.
 - If the LED indicator is not activated during installing the detector onSmartBracket, check the tamper status in the Ajax app, the integrity of the fastening, and the tightness of the detector fixation on the panel.



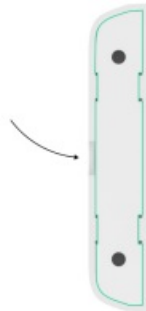
- If a small magnet is used: fix the magnet on the surface with double-sided tape.
5. Run Jeweller Signal Strength Test. The recommended signal strength is 2 or 3 bars. One bar or lower does not guarantee the stable operation of the security system. In this case, try moving the device: a difference of even 20 cm can greatly improve signal quality. Use the radio signal range extender if the detector has low or unstable signal strength after changing the installation spot.
 6. Run Detection Zone Test. To check the detector operation, open and close the window or door where the device is installed several times. If the detector doesn't respond in 5 out of 5 cases during the test, try to change the installation spot or method. The magnet may be too far from the detector.
 7. Run Signal Attenuation Test. During the test, the signal strength is artificially reduced and increased to simulate different conditions at the installation location. If the installation spot is chosen correctly, the detector will have a stable signal strength of 2-3 bars.
 8. If the tests are passed successfully, secure the detector and magnet with bundled screws.
 - **To mount the detector:** remove it from the SmartBracket mounting panel. Then fix the SmartBracket panel with bundled screws. Install the detector on the panel.



- **To mount a large magnet:** remove it from the SmartBracket mounting panel. Then fix the SmartBracket panel with bundled screws. Install the magnet on the panel.



- **To mount a small magnet:** remove the front panel using a plectrum or plastic card. Fix the part with magnets on the surface; use the bundled screws for this. Then install the front panel on its place.



If use screwdrivers, set the speed to the minimum so as not to damage the SmartBracket mounting panel during installation. When using other fasteners, make sure they do not damage or deform the panel. To make it easier for you to mount the detector or magnet, you can pre-drill the screw holes while the mount is still secured with double-sided tape.

Do not install the detector:

1. outside the premises (outdoors);
2. nearby any metal objects or mirrors causing attenuation or interference of the signal;

3. inside any premises with a temperature and humidity beyond the permissible limits;
4. closer than 1 m to the hub.

Connecting a Third-Party Wired Detector

A wired detector with the NC contact type can be connected to DoorProtect using the outside-mounted terminal clamp.



We recommend installing a wired detector at a distance not exceeding 1 meter — increasing the wire length will increase the risk of its damage and reduce the quality of communication between the detectors. To lead out the wire from the detector body, break out the plug:



If the external detector is actuated, you will receive a notification.

Detector Maintenance and Battery Replacement

- Check the operational capability of the DoorProtect detector on a regular basis.
- Clean the detector body from dust, spider web and other contaminations as they appear. Use soft dry napkin suitable for equipment maintenance.
- Do not use any substances containing alcohol, acetone, gasoline and other active solvents for cleaning the detector.
- The battery lifetime depends on battery quality, actuation frequency of the detector and ping interval of the detectors by the hub.
- If the door opens 10 times a day and the ping interval is 60 seconds, then DoorProtect will operate up to 7 years from the pre-installed battery. Setting the ping interval of 12 seconds, you will reduce the battery life to 2 years.

How long do Ajax devices operate on batteries, and what affects this

If the detector battery is discharged, you will receive a notification, and the LED will smoothly light up and go out, if the detector or tamper is actuated.

Battery Replacement

Technical specifications

Sensor	Sealed contact reed relay
Sensor resource	2,000,000 openings
Detector actuation threshold	1 cm (small magnet) 2 cm (big magnet)
Tamper protection	Yes
Socket for connecting wire detectors	Yes, NC
Radio communication protocol	Jeweller Learn more
Radio frequency band	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.
Compatibility	Operates with all Ajax hubs , radio signal range extenders , ocBridge Plus , uartBridge
Maximum RF output power	Up to 20 mW
Modulation	GFSK
Radio signal range	Up to 1,200 m (in an open space) Learn more
Power supply	1 battery CR123A, 3 V
Battery life	Up to 7 years
Installation method	Indoors
Protection class	IP50
Operating temperature range	From -10°C to +40°C
Operating humidity	Up to 75%
Dimensions	Ø 20 × 90 mm
Weight	29 g
Service life	10 years
Certification	Security Grade 2, Environmental Class II in conformity with the requirements of EN 50131-1, EN 50131-2-6, EN 50131-5-3

Compliance with standards

Complete Set

1. DoorProtect
2. SmartBracket mounting panel
3. Battery CR123A (pre-installed)
4. Big magnet
5. Small magnet
6. Outside-mounted terminal clamp
7. Installation kit
8. Quick Start Guide

Warranty

Warranty for the Limited Liability Company “Ajax Systems Manufacturing” products is valid for 2 years after the purchase and does not apply to the pre-installed battery. If the device does not work correctly, you should first contact the support service — in half of the cases, technical issues can be solved remotely!

The full text of the warranty

User Agreement


Technical support: support@ajax.systems

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Documents / Resources

 <p>DoorProtect User manual</p> <p>DoorProtect is a wireless shock and tilt sensor designed for monitoring doors and windows. It is a compact, easy-to-install device that can be used to protect your home or business from unauthorized entry. The device is powered by a CR123A battery and can be connected to a variety of alarm systems.</p>	<p>AJAX DoorProtect Opening Detector With Shock And Tilt Sensor [pdf] User Manual</p> <p>DoorProtect Opening Detector With Shock And Tilt Sensor, DoorProtect, Opening Detector With Shock And Tilt Sensor, Detector With Shock And Tilt Sensor, Shock And Tilt Sensor, Tilt Sensor, Sensor</p>
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