

DoorProtect Plus Fibra user manual

Updated August 29, 2024



DoorProtect Plus Fibra is a wired opening, shock, and tilt detector. Designed for indoor use. Supports connection of a third-party normally closed detector.

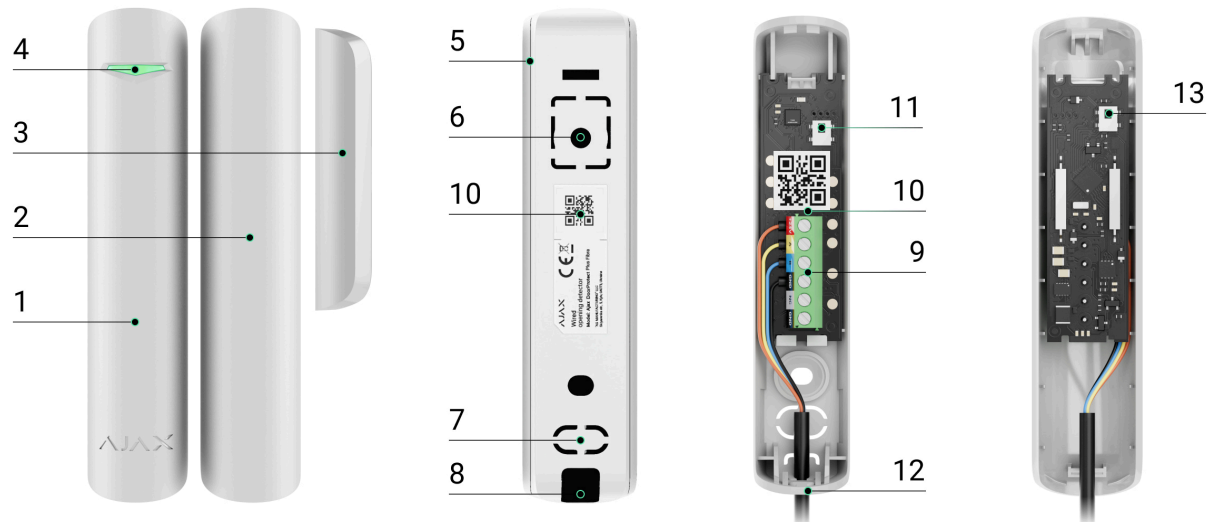


The detector is compatible with [Hub Hybrid \(2G\)](#) and [Hub Hybrid \(4G\)](#). Connection to other [hubs](#), [radio signal range extenders](#), [ocBridge Plus](#), and [uartBridge](#) is not provided. Integration with other security systems is also not provided.

DoorProtect Plus Fibra only works as a part of the Ajax system, communicating with the hub via the secure Fibra protocol. The wired connection range is up to 2,000 meters when connected via twisted pair U/UTP cat.5.

DoorProtect Plus Fibra is a part of the Fibra product line of wired devices. Only accredited Ajax Systems partners can sell, install, and administer Fibra products.

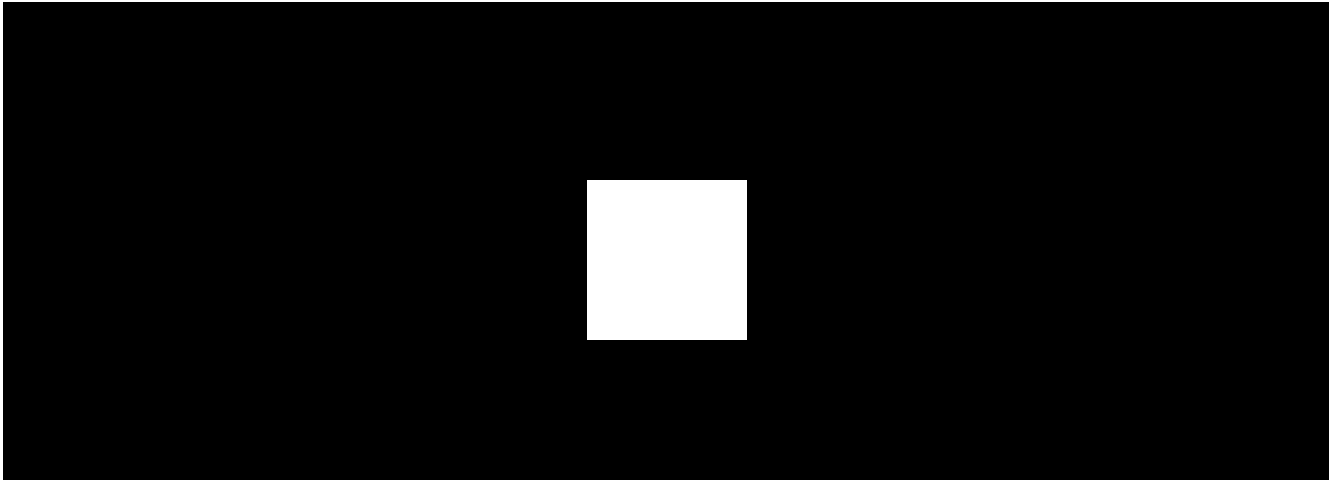
Functional elements



1. DoorProtect Plus Fibra detector.
2. Large magnet.
3. Small magnet.
4. LED indicator.
5. Rear panel of the detector casing. Used as a mount.
6. Perforated part of the mounting plate. It is necessary to trigger a tamper in an attempt to detach the detector from the surface. Do not break it off.
7. Perforated part for routing wires through the wall.
8. Perforated part for routing wires at the bottom of the detector.
9. Terminal block for detector connection.
10. QR code with the device ID. Used to connect to the Ajax system.
11. First tamper button. Triggers in case of an attempt to open the detector casing.
12. Hole for attaching the mounting panel with a screw.

13. Second tamper button. Triggers in case of an attempt to detach the detector from the surface.

Operating principle



00:00

00:12

DoorProtect Plus Fibra is a wired opening, shock, and tilt detector. It connects to the hub with a wire and uses Fibra protocol.

The detector responds to alarms of three types: opening, shock, and tilt.

If triggered, armed DoorProtect Plus Fibra transmits the alarm signal to the hub, activates the sirens connected to the hub, and notifies the user and the security company.

Users know exactly where an alarm is detected. Notifications state the name of the hub (the name of the guarded facility), the name of the device, and the virtual room to which the detector is assigned.

[How Ajax notifies users of alarms](#)

[More about Ajax opening detectors](#)

Opening detection

The detector registers the opening of doors or windows with a reed switch.



The sensitive element of the detector is a reed switch (**sealed contact**). This is a small flask with an open contact group inside. When a magnet is brought to the detector, a magnetic field is generated and the detector contacts are magnetized, attracted, and closed. Opening the flap or door moves the magnet away from the reed switch, which opens the circuit, and the detector detects opening.

Shock detection

To detect shock and vibration, the detector is equipped with a built-in accelerometer. It responds to attempted burglary, e.g. an attempt to break down a door/window or drill through a door lock.

Tilt change detection

The **tilt sensor** detects the vertical axis deviation of a device. Before the system is armed, the sensor remembers the initial position and is triggered if the deviation is more than 5° (depending on the settings). This allows it to protect windows, including skylights, and arm the system when the window is in ventilation mode. You just need to disable the main detector in the settings in advance.

Fibra data transfer protocol

The detector uses Fibra technology to transmit alarms and events. It is a wired data transfer protocol for fast, reliable two-way communication between the hub and connected devices.

[Learn more](#)

Connecting a third-party wired detector

You can connect an external wired NC (normally closed) detector to DoorProtect Plus Fibra. This can be any detector: motion, opening, or vibration.

DoorProtect Plus Fibra cannot power a third-party detector. It should be connected separately. For the type and voltage of the third-party detector, refer to the device documentation or contact the manufacturer's technical support.

[How to connect a wired detector](#)

Sending events to the monitoring station

The Ajax system can transmit alarms to the [PRO Desktop](#) monitoring app as well as the central monitoring station (CMS) in the formats of **SurGard (Contact ID)**, **SIA (DC-09)**, **ADEMCO 685**, and [other protocols](#).

DoorProtect Plus Fibra can transmit the following events:

1. Opening sensor (reed switch) alarm/recovery.
2. Alarm/recovery of a third-party detector with a normally closed (NC) contact type.
3. Tamper alarm/recovery.
4. Loss and restoration of connection with the hub.
5. Permanent deactivation/activation of the detector.
6. Unsuccessful attempt to arm the security system (with [Integrity check](#) enabled).

When an alarm is received, the operator of the security company monitoring station knows what happened and precisely where to send a fast response team. The addressability of Ajax devices allows sending events to the **PRO Desktop** or the CMS, the type of the device, its name, security group, and virtual room. The list of transmitted parameters may differ depending on the type of CMS and the selected communication protocol.



The device ID, the loop (zone) number, and the line number can be found in its [states in the Ajax app](#).

Selection of the installation site

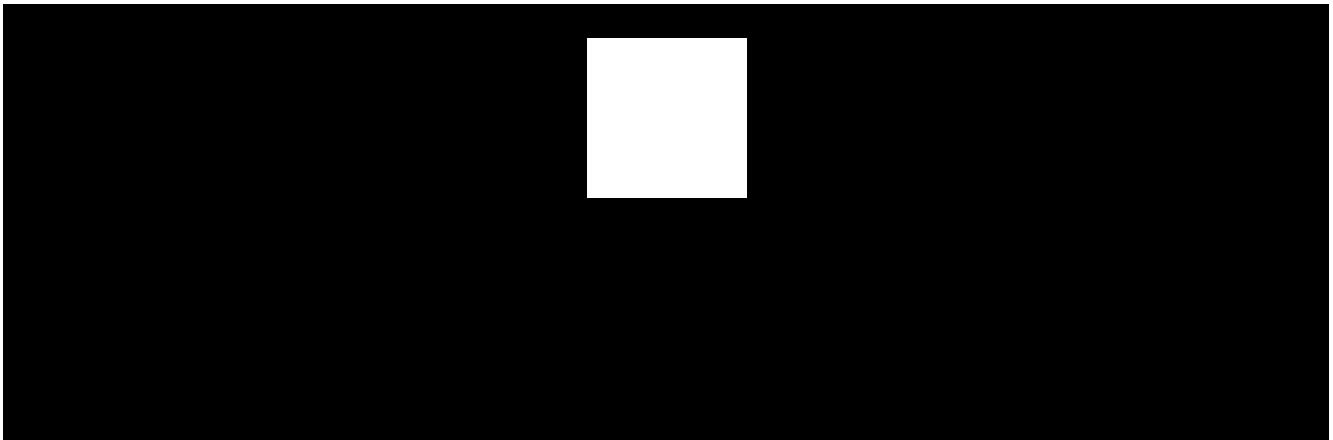
When choosing where to place the detector, consider the parameters that affect its operation:

- Fibra signal strength.
- The length of the cable for connecting the detector.
- Detection zone.

Consider the recommendations for placement when developing a project for the system of the facility. The Ajax system must be designed and installed by specialists. A list of recommended partners is [available here](#).

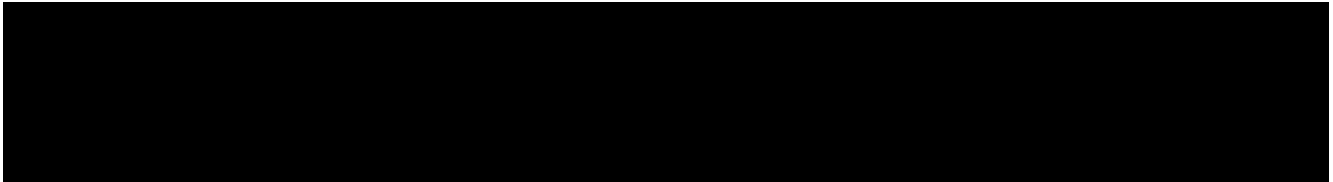
Installation recommendations

DoorProtect Plus Fibra has two reed switches, which allows you to install a magnet on both the left and right side of the detector. Note that the detector works with one magnet on one side only. If magnets are installed on both sides, the detector will not detect the opening correctly.



00:00

00:06



the maximum distance between the detector and the magnet. This may result in false alarms or malfunction of the detector (it will not respond to the closing/opening of a door or window).

DoorProtect Plus Fibra can be installed on both fixed and movable parts of the structure.



For correct shock detection and position change, the sensor must be placed on a moving part of the structure.



DoorProtect Plus Fibra can be installed on windows, including skylights, and arm the system when the window is in the ventilation mode (be sure to deactivate the magnetic detector in the settings before you do this). To detect changes in the door or window position, attach the detector to a moving wing.

If you want to use only the shock and/or tilt sensor, use only the sensor unit (without magnets) and disable the magnetic sensor in the device settings.



Depending on the conditions at your facility, DoorProtect Plus Fibra can be installed either vertically or horizontally.



For correct shock detection and position change, the sensor must be placed on a moving part of the structure.

To avoid damage to the wire, use flexible transitions at the points of transition from a fixed to a moving part of the structure.



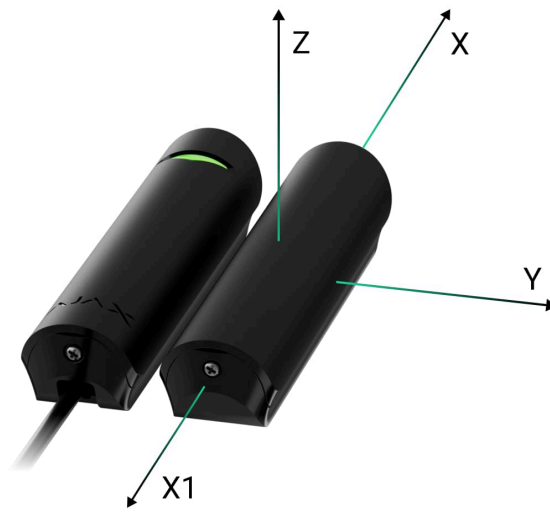
The DoorProtect Plus Fibra working distances*

When mounting the detector on perpendicular planes, use a small magnet. The distance between the small magnet and the detector should not exceed 1 cm.

Use a big magnet if parts of DoorProtect Plus Fibra are mounted on the same plane. The table below provides information about the working distances between the big magnet and the detector.

Relatively to the detector, the magnet can move along three axes: X (X1), Y, or Z. It depends on the DoorProtect Plus Fibra installation location. For example:

- X-axis (or X1): on the roller shutter.
- Y-axis: on the sliding door.
- Z-axis: on the window.



Axis	Big magnet on the non-ferromagnetic surfaces (e.g., wooden doors)		Big magnet on the ferromagnetic surfaces (e.g., metal doors)	
	Removal distance, mm	Approach distance, mm	Removal distance, mm	Approach distance, mm
X	26	19	24	16
X1	17	11	17	10
Y	28	16	26	15
Z	42	24	38	23

* – for small magnet all measurements will be reduced.





Do not exceed the boundary distance between the detector and the magnet. This may cause false alarms or detector malfunction (it will not react to closing/opening of the door or window).

Do not install the detector

1. Outdoors, as this can lead to false alarms and detector failure.
2. With two magnets at a time. DoorProtect Plus Fibra recognizes one magnet only on one side of the detector – left-hand or right-hand.

3. With a magnet installed more than 1 cm (if a small magnet is used) or 2 cm (if a large magnet is used) away from the detector. This may result in false alarms or malfunction of the detector (it will not react to closing/opening of the door or window).
4. Inside premises with temperature and humidity outside the permissible limits. This could damage the detector.
5. In places with low or unstable Fibra signal strength.

Fibra signal strength

Fibra signal strength is the ratio of undelivered or corrupted data packages to those expected over a specific time. The icon  in the **Devices**  tab in Ajax apps indicates the signal strength:

- **Three bars** – excellent signal strength.
- **Two bars** – good signal strength.
- **One bar** – low signal strength; stable operation is not guaranteed.
- **Crossed out icon** – no signal; stable operation is not guaranteed.

What is Fibra signal strength test

Detection zone

When choosing where to place the detector, perform the Detection zone test. This allows you to check the operation of the device and ensure that the detector responds correctly to the opening and closing of a door or a window, impact, and changes in angle.

Lines power test

The test simulates the maximum energy consumption of devices connected to the hub. If the system passes the test successfully, all its devices have enough power

in any situation. After the test, the app displays a notification with the status of each line:

- Test passed.
- Test passed with malfunctions.
- Test failed.

What is Lines power test

Design the system project

For the system to work correctly, it is important to properly design the project and install all devices correctly. Failure to follow the basic installation rules and recommendations of this manual may result in detector malfunction, false alarms, or loss of connection with already installed devices.

When designing the layout scheme of the detectors, consider the wiring diagram of the power cables laid on the site. Signal cables must be laid at a distance of at least 50 cm from the power cables when lying parallel, and, if they intersect, it must be at a 90° angle. Note that if you connect multiple devices on the same line, detectors are connected in sequence.



The maximum number of connectable devices for the Hub Hybrid is 100 at the default settings.

For facilities that are under construction or renovation, cables are laid after the main wiring of the facility. Use protective tubes to organize and secure the cables; ties, clips, and staples can be used to anchor them.

When laying cables externally (without mounting them inside the walls), use an electric channel raceway. Raceways should be no more than half-filled with cables. Do not allow cables to sag. The raceway should be hidden from view if possible – for example, behind furniture.



We recommend laying cables inside walls, floors, and ceilings. This will provide greater security; the cables will not be visible, and it will be impossible for an intruder to access them.

When selecting a cable, consider the length of the connection lines and the number of detectors to be connected; these parameters affect the signal strength. We recommend using shielded copper cables with a high-quality insulation layer.

When installing, observe the bend radius that the manufacturer specifies in the cable specs. Otherwise, you risk damaging or breaking the conductor.

Be sure to check all cables for bends and physical damage before installation. Perform the installation in a way that minimizes the possibility of damage to the cables from the outside.



Ajax systems also support **Beam** and **Ring** topologies.

[Learn more](#)

Cable length and type

Recommended cable types for connecting DoorProtect Plus Fibra to the hub:

- U/UTP cat.5, 4 × 2 × 0.51, copper conductor.
- Signal cable 4 × 0.22, copper conductor.



The wired connection range may vary if you use a different cable type. No other types of cables have been tested.

Installation and connection



Before installing DoorProtect Plus Fibra, make sure to select the optimal location following the requirements of this manual! Cables must be hidden and located in a place that is difficult for burglars to access to reduce the likelihood of sabotage. Ideally, mount them in the walls, floor, or ceiling. Before final installation, test the detection zone and the Fibra signal strength.

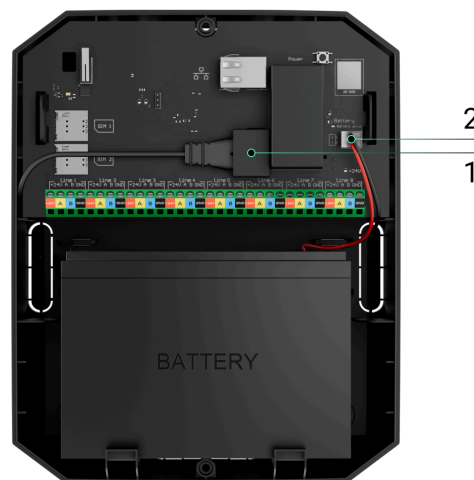
DoorProtect Plus Fibra is connected with a 4-core cable: two cores for powering the device (+24V and GND) and two cores for data transmission (line A and line B).

When connecting to the device terminals, do not twist the wires together; solder them. The ends of the wires that will be inserted into the terminals should be tinned or crimped with special tips. This will ensure a reliable connection. **Follow safety procedures and regulations for electrical installation work.**

How to calculate the wire connection length

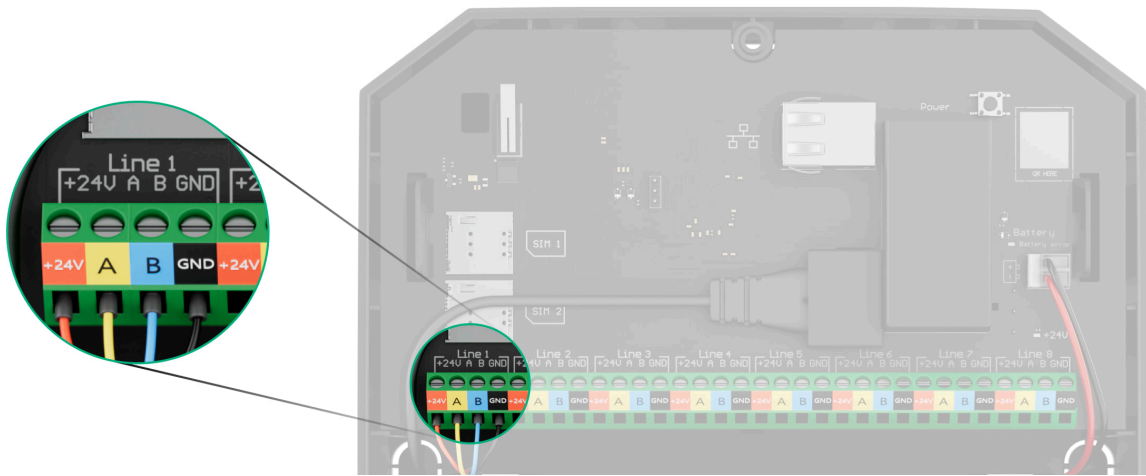
To mount a detector:

1. Turn off the hub. Disconnect the external power and the hub backup battery.



- 1 – External power supply
- 2 – Backup battery

2. Run the detector connection cable into the hub casing and connect the wires to the line.



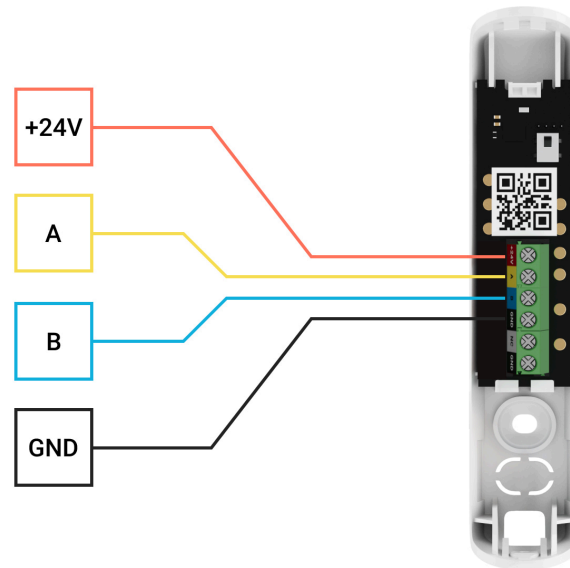
+24V – power supply input
A, B – signal terminals
GND – ground

3. Remove the rear panel of the detector and gently break out the perforated part to lead the cable out.



4. Route the cable from the hub into the detector casing through the hole made.

5. Connect the wires to the terminals according to the scheme below. Follow the polarity and connection order of the wires. Securely fasten the wires to the terminals.



+24V – power supply input

A, B – signal terminals

GND – ground

6. If the detector is not the last one in the connection line, prepare a second cable in advance. The ends of the wires of the first and second cables, which will be inserted into the detector terminals, must be tinned and soldered together, or crimped with special tips.
7. If the detector is the last one in the line and the **Beam connection (Radial wiring)** is used, install a terminating resistor by connecting it to the signal terminals of the device. When the **Ring connection method** is used, a terminating resistor is not needed.



We recommend using the **Ring connection method** (hub – device – hub). If the ring is broken, not a single device will be disabled. In this case, two beams are formed, which will continue to operate normally and transmit events to the hub. If the ring is broken, the users and security company receive notification.



8. Temporarily secure the detector using a double-sided adhesive tape or other temporary fasteners at the chosen installation place.
9. Where necessary, temporarily attach the magnet.
10. Turn on the hub to supply power to the connected detector with power. When power is applied, a detector LED will notify that the power is turned on.
11. Add a detector to the system.
12. Conduct the Fibra Signal Strength Test. The recommended signal strength value is two or three bars. Otherwise, check the connection and the condition of the cable.
13. Run a detection zone test:
 1. To check the opening sensor, open and close the window on which the device is mounted.
 2. Gently hit the window/door to check the shock sensor.
 3. To check the tilt sensor, tilt the window on which the detector is mounted.
14. If the detector doesn't respond to triggering in 5 out of 5 cases during the test, reconsider the installation location or method. The magnet may be too far from the detector, or the detector may be installed incorrectly.
15. Secure the detector with bundled screws using at least two fixing points (with one fixing point in the perforated part of the mount above the tamper). When using other fasteners, make sure they do not damage or deform the mounting panel.



Double-sided tape can only be used for temporary installation. The device attached by the tape may come unstuck from the surface at any time. As long as the device is taped, the tamper will not be triggered when the device is detached from the surface.

Connecting a third-party wired detector

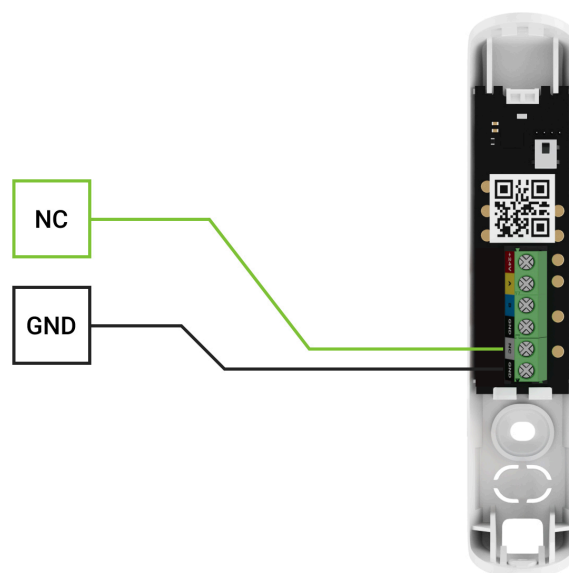
You can connect a wired NC (normally closed) detector of any type – motion, opening, or vibration – to DoorProtect Plus Fibra.

DoorProtect Plus Fibra does not power a third-party detector. It should be connected separately. For the type and voltage of the third-party detector, refer to the device documentation or contact the manufacturer's support service.

Install a third-party detector at the distance no more than 1 meter away from DoorProtect Plus Fibra. Increasing the length of the wire degrades the quality of communication between devices.

To connect a third-party wired detector:

1. Turn off and de-energize the hub. Disconnect the backup battery.
2. Remove the front panel of DoorProtect Plus Fibra.
3. Route the cable of the third-party wired detector into the DoorProtect Plus Fibra casing.
4. Connect the wired detector to the DoorProtect Plus Fibra terminals.



NC – connection terminal

GND – ground

5. Turn on the hub.
6. In the **DoorProtect Plus Fibra settings**, enable the **External contact** option.
7. Check the operation of the connected wired detector.

Adding to the system



The detector is only compatible with [Hub Hybrid \(2G\)](#) and [Hub Hybrid \(4G\)](#). Adding and configuring Fibra devices is only possible through the Ajax PRO app by a user with administrator rights.

[Types of accounts and their rights](#)

Before adding a device

1. Install an [Ajax PRO app](#).
2. Log in to a [PRO account](#) or create a new one.
3. Select a space or create a new one.

[What is a space](#)

[How to create a space](#)



The **space** functionality is available for apps of such versions or later:

- Ajax Security System 3.0 for iOS;
- Ajax Security System 3.0 for Android;
- Ajax PRO: Tool for Engineers 2.0 for iOS;


- Ajax PRO: Tool for Engineers 2.0 for Android;
- Ajax PRO Desktop 4.0 for macOS;
- Ajax PRO Desktop 4.0 for Windows.

4. Add at least one virtual room.
5. Add a compatible hub to the space. Ensure the hub is switched on and has internet access via Ethernet, Wi-Fi, and/or mobile network.
6. Ensure the space is disarmed, and the hub is not starting an update by checking statuses in the Ajax app.


How to add DoorProtect Plus Fibra

There are two ways to add devices: manually and automatically.


To add a detector manually:

1. Open the PRO version of the app. Select the hub you want to add DoorProtect Plus Fibra to.
2. Go to the **Devices**  tab and click **Add device**.
3. Name the detector, scan, or type in the **QR code** (placed on the detector casing and the packaging), select a room and a group (if the group mode is enabled).
4. Click **Add**.

To have the detector added automatically:

1. Open the PRO version of the app. Select the hub you want to add DoorProtect Plus Fibra to.
2. Go to the **Devices**  tab and click **Add device**.
3. Select **Add all Fibra devices**. After scanning, a list of all devices physically connected to the hub, which have not yet been added to the system, will be

displayed on the screen. The devices are sorted by the lines they are physically connected to.

After scanning the lines, the detectors will be displayed in the **Devices**  tab. The order of the devices will depend on which line they are connected to.

By default, the device name includes the detector name and its identifier. To connect detectors to a hub, edit their name, and assign a room and a group to the device (if the group mode is activated in the hub settings).

To check which detector you actually deal with, use either LED indication or detector triggering.

Method 1: Via LED indication

In the list of available devices to add, click on any option. The LED of this detector will start blinking after you press it. This way, you'll know exactly which detector you're adding, how to name it, and which room and group it should be assigned to.

To add a detector:

1. Click the detector in the list.
2. Create a name.
3. Specify the room and the security group (if enabled).
4. Click **Save**.

If the detector is connected to the hub successfully, it will disappear from the list of available detectors.

Method 2: By detector alarm

Enable the **Prioritize triggered devices** option above the list of detectors.

Trigger an alarm. When triggered, the detector will move to the top of the list to the **Recently triggered devices** category. The detector will stay in this category for 5 seconds, after which it will move back to the **Lines** category.

To add a detector:

1. Click on the device in the list.
2. Create a name.
3. Specify the room and the security group (if enabled).
4. Click **Save**.

If the detector connects to the hub successfully, it will disappear from the list of available detectors.



Device status updates in the list depend on the Fibra settings; the default value is 36 seconds.

If the connection fails, check the accuracy of the wired connection and try again. If hub already has the maximum number of devices added (for Hub Hybrid, the default is 100), you will get an error notification when you add one.

DoorProtect Plus Fibra only works with one hub. When connected to a new hub, the detector stops exchanging commands with the old one. Once added to a new hub, DoorProtect Plus Fibra is not removed from the list of devices of the old hub. This must be done through the Ajax app.

Malfunctions


When a detector identifies a fault (for example, there is no connection via the Fibra protocol), the Ajax app displays a malfunction counter in the upper left corner of the device icon.









All malfunctions can be seen in the [detector states](#). Fields with malfunctions will be highlighted in red.





Malfunction is displayed if:

- The detector temperature is out of acceptable limits.
- The detector casing is open (tamper is triggered).
- There is no connection with the hub via the Fibra protocol.

Icons

The icons display some DoorProtect Plus Fibra states. You can view them in the Ajax app on the **Devices**  tab.

Icon	Meaning
	Fibra signal strength – displays the signal strength between the hub and the detector. Learn more
	The detector operates in the Always Active mode. Learn more
 	Entry and/or exit delay is enabled. Learn more
	DoorProtect Plus Fibra will work when the Night Mode is enabled. Learn more
	DoorProtect Plus Fibra has detected the opening of a door or a window. The icon is displayed regardless of the security mode.
	The external contact of the DoorProtect Plus Fibra detector is on. Learn more
	DoorProtect Plus Fibra has been deactivated.

	<u>Learn more</u>
	DoorProtect Plus Fibra has been disabled because the number of alarms was exceeded. <u>Learn more</u>
	DoorProtect Plus Fibra has been disabled by timer. <u>Learn more</u>
	DoorProtect Plus Fibra has tamper triggering events deactivated by a user or PRO with administrator rights. <u>Learn more</u>
	The device was not transferred to the new hub. <u>Learn more</u>

States

The states include information about the device and its operating parameters. DoorProtect Plus Fibra states can be found in the Ajax app:

1. Go to the **Devices**  tab.
2. Choose **DoorProtect Plus Fibra** from the list.

Parameter	Meaning
Temperature	<p>Detector temperature – it is measured on the processor and changes gradually.</p> <p>Acceptable measurement error between the value in the app and the room temperature: 2–4°C.</p>

	<p>The value is updated as soon as the detector identifies a temperature change of at least 1°C.</p>
Fibra signal strength	<p>Signal strength between the hub and DoorProtect Plus Fibra. Recommended values – 2–3 bars.</p> <p>Fibra – protocol for transmitting DoorProtect Plus Fibra events and alarms.</p> <p><u>Learn more</u></p>
Connection via Fibra	<p>The status of the connection between the hub and the detector:</p> <ul style="list-style-type: none">• Online – the detector is connected to the hub, the connection is stable.• Offline – the detector is not connected to the hub.
Line voltage	<p>The voltage value on the Fibra line to which the detector is connected.</p>
Lid	<p>The status of the detector tampers that respond to detachment or violation of the integrity of the casing:</p> <ul style="list-style-type: none">• Front lid open.• Device detached from surface.• Detached from surface and front lid open.• Closed – both casing panels are closed (the detector is completely closed). <p><u>Learn more</u></p>
Opening sensor	<p>Status of the detector's opening sensor:</p> <ul style="list-style-type: none">• Disabled – sensor is deactivated.• Open – sensor is open.

	<ul style="list-style-type: none">• Closed – sensor is closed.
External contact	<p>State of the external detector connected to DoorProtect Plus Fibra:</p> <ul style="list-style-type: none">• Disabled – the external contact is disabled (the option is disabled in the app).• Open – the external contact is connected and in the open state.• Closed – the external contact is connected and in the closed state.
Shock sensor	<p>Indicates if the shock sensor is active:</p> <ul style="list-style-type: none">• On – the shock sensor is on.• Off – the shock sensor is off.
Tilt sensor	<p>Indicates if the tilt sensor is active:</p> <ul style="list-style-type: none">• On – the tilt sensor is on.• Off – the tilt sensor is off.
Always active	<p>When this option is enabled, the detector is constantly in the armed mode and reports opening of the door or window on which it is installed.</p> <p><u>Learn more</u></p>
Permanent deactivation	<p>Shows the status of the device permanent 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 casing.

- **Entirely** – the hub administrator has excluded the detector from the system. The device does not execute system commands and does not report alarms or other events.

[Learn more](#)

- **By number of alarms** – the device is automatically disabled due to the excess number of alarms.
- **By timer** – the device is automatically turned off by the system after the recovery time expires.

[Learn more](#)

Alarm reaction

Operating mode

Shows how the detector reacts to alarms:

- **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

If active, this option shows the delay time when entering (5 to 120 seconds).


Delay when entering (alarm activation delay) is the time the user has to disarm the security system after entering the secured area.

[Learn more](#)

Delay when leaving, sec	<p>If active, this option shows the delay time when entering (5 to 120 seconds).</p> <p>Delay when leaving (arming delay) is the time the user has to leave the secured area after arming.</p> <p>Learn more</p>
Delay when entering for the Night mode, sec	<p>If active, this option shows the delay time when entering in Night mode (5 to 120 seconds).</p> <p>Delay when entering (alarm activation delay) is the time the user has to disarm the security system after entering the premises.</p> <p>Learn more</p>
Delay when leaving for the Night mode, sec	<p>If active, this option shows the delay time when leaving in Night mode (5 to 120 seconds).</p> <p>Delay when leaving (arming delay) is the time the user has to leave the premises after arming.</p> <p>Learn more</p>
Firmware	Detector firmware version.
Device ID	Detector ID – Also available on the detector casing and the packaging.
Device №	Device loop (zone) number.
Line number	The number of the line the device is physically connected to.

Settings


To change the detector settings in the Ajax app:

1. Go to the **Devices**  tab.
2. Choose **DoorProtect Plus Fibra** from the list.

3. Go to **Settings** by clicking on the gear icon .

4. Set the required parameters.

5. Click **Back** to save the new settings.

Settings	Meaning
Name	<p>Detector name. Displayed in the list of hub devices, SMS text, and notifications in the event feed.</p> <p>To change the detector name, click on the pencil icon .</p> <p>The name can contain up to 12 Cyrillic characters or up to 24 Latin characters.</p>
Room	<p>Selecting the virtual room to which DoorProtect Plus Fibra is assigned.</p> <p>The room name is displayed in the text of SMS and notifications in the event feed.</p>
Alarm LED indication	<p>Controls the flashing of the detector LED in case of alarm and tamper triggering. When option is disabled, the indication is disabled and will not report alarm and tamper triggering.</p>
Opening sensor	<p>When this option is enabled, the opening sensor reacts to opening and closing.</p>
External contact	<p>If enabled, DoorProtect Plus Fibra registers alarms from an external detector.</p>
Always active	<p>When this option is enabled, the detector is constantly in the armed mode and detects opening of the door or window on which it is installed.</p> <p><u>Learn more</u></p>

Shock sensor	When this option is enabled, the device detects shocks.
Sensitivity	<p>Shock sensor sensitivity level.</p> <p>The choice depends on the type of the object, the presence of probable sources of false alarms, and the specifics of the protected area:</p> <ul style="list-style-type: none"> • Low – there are likely sources of false alarms in the protected area. For example, vibration from freight machines driving by. • Normal (default value) – recommended value suitable for most objects. Do not change it if the detector works correctly. • High – there is no interference in the protected area; the maximum sensitivity of detection and the alarm detection speed are important. <p>Before selecting the sensitivity level, conduct the <u>detection zone test</u>. If the detector doesn't react to shock in 5 cases out of 5 during the test, the sensitivity should be increased.</p>
Ignore simple impact	When this option is enabled, the alarm is activated only if the sensor detects more than one shock.
Tilt sensor	When this option is enabled, the detector detects a change in the tilt angle.
Tilt	Selection of the initial value of the tilt angle of the detector. The sensor detects an alarm if the tilt angle value changes.
Tilt alarm delay	The time from the moment the detector is tilted to the alarm: 1 second to 1 minute.
Alert with siren if opening detected	When this option is enabled, the <u>sirens connected to the system</u> are activated when a door or window is opened.
Alert with siren if roller shutter is triggered	When this option is enabled, the <u>sirens connected to the system</u> are activated in case of an alarm from an external detector.

Alert with siren if roller shutter is disconnected	If active, the <u>sirens connected to the system</u> are activated if an external detector is disabled.
Alert with siren if shock detected	If active, the <u>sirens connected to the system</u> are activated if the detector registers a shock.
Alert with siren if tilt detected	If active, the <u>sirens connected to the system</u> are activated if the detector registers change the angle of inclination.
Chime settings	<p>When this option is enabled and the system is not armed, when opening, the detector alerts by the sound signal of sirens.</p> <p><u>Learn more</u></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 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>Delay time when entering (5 to 120 seconds).</p> <p>Delay when entering (alarm activation delay) is the time the user has to disarm the security system after entering the secured area.</p> <p><u>What Is Delay When Entering</u></p>
Delay when leaving, sec	Delay time when leaving (5 to 120 seconds).

	<p>Delay when leaving (arming delay) is the time the user has to leave the secured area after arming.</p> <p><u>What is Delay When Leaving</u></p>
<p>Arm in Night mode</p>	<p>When this option is enabled, the detector will enter the armed mode when using the Night mode.</p> <p><u>What is Night mode</u></p>
<p>Delays in Night mode</p>	<p>When this option is enabled, the set entry/exit delays also work in the Night mode.</p> <p><u>What is Night mode</u> <u>What is Delay When Leaving</u></p>
<p>Fibra signal strength test</p>	<p>Switches the detector to the Fibra signal strength test mode.</p> <p>The test allows you to check the signal strength between the hub and the detector over the Fibra wired data transfer protocol to determine the optimal installation location.</p> <p><u>Learn more</u></p>
<p>Detection zone test</p>	<p>Switches the detector to the detection zone test mode.</p> <p>The test enables the user to check the detector's reaction to the movement and determine the optimal installation location.</p> <p><u>Learn more</u></p>
<p>User guide</p>	<p>Opens the User Manual of DoorProtect Plus Fibra detector in the Ajax app.</p>
<p>Permanent deactivation</p>	<p>Allows to disable 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 events. • Entirely – the device will not execute system commands or participate in scenarios, and the system will ignore device alarms and other notifications. • Lid only – the system will ignore notifications about the tamper triggering. <p>Learn more</p> <p>The system can also automatically deactivate devices when the set number of alarms is exceeded or when the recovery time expires.</p> <p>Learn more</p>
Unpair device	Disconnects the detector from the hub and deletes its settings.



How to set up chime

Chime is a sound signal [Ajax siren](#) that indicates triggering of opening detectors when the system is disarmed. The feature is used, for example, in stores, to notify employees that someone has entered the building.

Chime is configured in two stages: setting up opening detectors and setting up sirens.

[Learn more](#)

Detectors settings

1. Go to the **Devices**  menu.
2. Select the **DoorProtect Plus Fibra** 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 notification sound: 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

Indication	Event	Note
Lights up green for about a second.	Switching on the detector.	The detector turns on as soon as the hub feeds power.
Lights up for a couple of seconds until the detector is connected to the hub.	Connecting the detector to the hub.	
Lights up green for about one second.	Alarm/tamper triggering.	
When alarmed, it slowly lights up green and slowly goes out.	Low line voltage (7 V or lower).	Voltage of 7 V or less is considered low. Check the wired connection of the detector.

Functionality testing

The Ajax system provides several types of tests that help you make sure that installation points of devices are selected correctly. DoorProtect Plus Fibra tests do not start straight away but begin no later than a single hub-detector ping period (36 seconds with a default hub settings). You can change the ping period of devices in the **Fibra** menu of the hub settings.

To run a test in the Ajax app:

1. Select the space if you have several of them or if you are using a PRO app.
2. Go to the **Devices**  menu.
3. Choose **DoorProtect Plus Fibra**.
4. Go to **Settings** .
5. Select a test:
 1. [Fibra Signal Sstrength Test](#)
 2. [Detection zone](#)
6. Launch and conduct a test.

Maintenance

Check the functioning of the detector regularly. Clean the detector casing from dust, cobwebs, and other contaminants as they emerge. Use a soft dry cloth suitable for equipment care.

Do not use substances that contain alcohol, acetone, petrol, or other active solvents to clean the detector.

Technical specifications

[All technical specifications](#)

[Compliance with standards](#)

Warranty

Warranty for the Limited Liability Company “Ajax Systems Manufacturing” products is valid for 2 years after the purchase.

If the device does not function correctly, please contact the Ajax Technical Support first. In most cases, technical issues can be resolved remotely.

Warranty obligations

User Agreement

Contact Technical Support:

- e-mail
- Telegram

Manufactured by “AS Manufacturing” LLC

Email

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