

Button S Jeweller user manual

Updated June 26, 2024



Button S Jeweller is a wireless panic button with accidental press protection. The device has additional modes: it can control automation devices and mute fire alarms.

Button S operates within an Ajax system, connected to the hub via the protected Jeweller protocol. The communication range in an open space is up to 1,300 meters.



This product line is developed for projects. Only accredited Ajax Systems partners can sell, install, and administer **Superior** products.

Superior, **Fibra**, and **Baseline** product lines are mutually compatible. This opens up numerous possibilities for building systems of any configuration.

Functional elements



1. Alarm button.
2. Indicator lights.
3. Button mounting hole.

Compatible hubs and range extenders

An Ajax hub with the firmware OS Malevich 2.16 and higher is required for the device to operate.

Hubs	Radio signal range extenders
<ul style="list-style-type: none">• <u>Hub Plus</u>• <u>Hub 2 (2G)</u>• <u>Hub 2 (4G)</u>• <u>Hub 2 Plus</u>• <u>Hub Hybrid (2G)</u>• <u>Hub Hybrid (4G)</u>	<ul style="list-style-type: none">• <u>ReX</u>• <u>ReX 2</u>

To add the hub to the system, create a virtual space in the Ajax app of the corresponding version.

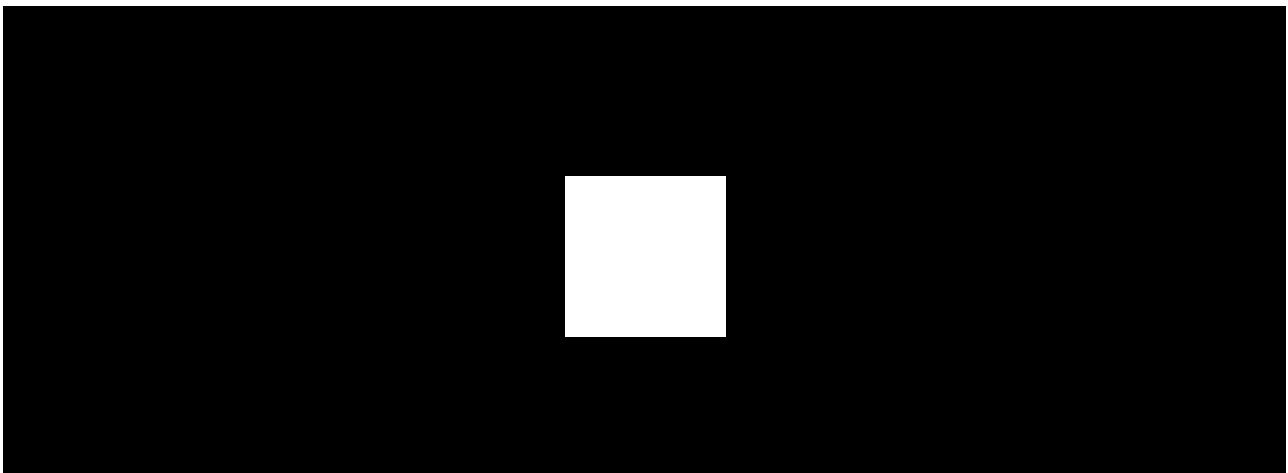
How to create a new space in the Ajax app



The space functionality is available for apps of such versions and higher:

- 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.

Operating principle



00:00

00:12

Button S Jeweller is a wireless panic button that operates in one of three modes: **Panic**, **Control**, or **Mute Fire Alarm**. When the button is pressed, it transmits an alarm to users and to the security company's CMS (central monitoring station). In **Control** mode, Button S allows you to control [Ajax automation devices](#) with a short or long button press.

In **Panic** mode, Button S can operate as a panic button and signal about a threat, notify of the need for auxiliary help, or inform about the intrusion, fire, gas alarm,

or water leak. You can select the type of alarm in the button settings. The text of alarm notifications depends on the selected type and the event codes transmitted to the CMS.



When connecting Button S via the [radio signal range extender](#), Button S does not automatically switch between the radio networks of the radio signal extender and the hub. You can manually assign Button S to another hub or range extender in the app.

Button S has the **Battery charge auto-check** option. When enabled, the system once a day checks the battery state of the button. If the auto-check is disabled, the battery state updates only when the device is pressed.



The feature is available when the button is connected to the hub with firmware version OS Malevich 2.17 or higher.

Use cases

Panic mode

In the **Panic** button mode, Button S informs the security, calls for help, or alerts of an emergency by activating sirens and sending other users a notification in the app. In the Button S settings, you can select one type of alarm out of eight:

- Intrusion.
- Fire.
- Auxiliary alarm.
- Panic button.
- Gas alarm.
- Malfunction.
- Leakage.
- Custom (not sent to the security company monitoring station).

The type of alarm determines the event code sent to the CMS and the notification text received by the user. This ensures an accurate response to the threat.

Note that in **Panic** mode, pressing Button S will raise an alarm regardless of the system security mode.





If Button S is pressed, an alarm can also run [an automation scenario](#).

The button can be installed on a flat surface or carried around. To install on a flat surface (for example, under the table), secure Button S with double-sided adhesive tape. To carry Button S on the strap: attach the strap to Button S using the mounting hole in the Button S enclosure.

Control mode

Button S can be used to control [automation devices](#). In **Control** mode, the Button S has two pressing options: short and long (when the button is pressed for over 3 seconds). These pressings can activate one or more automation devices: [Relay](#), [WallSwitch](#), [WaterStop](#), [LightSwitch](#), or [Socket](#).

To bind an automation device action to a long or short press of Button S:

1. Open the [Ajax app](#) and go to the **Devices**  tab.
2. Select **Button S** in the list of devices and go to settings by clicking the gear icon .
3. Select the **Control** mode in the **Operating mode** section. Click on the actual Button S device to save the changes.
4. Go to the **Scenarios** menu. Click **Create Scenario** if you are creating a scenario for the first time, or **Add Scenario** if scenarios have already been created in the system.
5. Select a pressing option to run the scenario: **Short press** or **Long press**.
6. Select the automation device to execute the action.

7. Enter the **Scenario Name** and specify the **Device Action** to be executed by pressing Button S:

- Switch on.
- Switch off.
- Switch the state.



The **Device Action** setting is unavailable when configuring a scenario for the [automation devices](#) operating in pulse mode. During the scenario execution, such devices will close/open the contacts for a set time. The operating mode and pulse duration are set in the automation device settings.

8. Click **Save**. The scenario will appear in the list of device scenarios.

Mute Fire Alarm mode

By pressing Button S, **Interconnected Fire Detectors Alarm** can be muted (if the corresponding operating mode of the button is selected). The reaction of the system to pressing a button depends on the state of the system:

- **Interconnected Fire Detectors Alarm has already propagated** – by the first press of Button S, all fire detectors' sirens are muted, except for those that registered the alarm. Pressing the button again mutes the remaining detectors.
- **The interconnected alarms delay time continues** – the siren of the triggered Ajax fire detector is muted by pressing.

[Learn more about Interconnected Fire Detectors Alarm](#)

Adding to the system



Button S is incompatible with [Hub](#), third-party security central panels, and ocBridge Plus and uartBridge integration modules.

To connect Button S to the hub, the button must be located at the same secured facility as the system (within the range of the hub radio network). For the button to work via the [ReX](#) or [ReX 2](#) radio signal range extender, you must first add the button to the hub, then connect it to ReX or ReX 2 in the settings of the range extender.



The hub and the device operating at different radio frequencies are incompatible. The radio-frequency range of the device may vary by region. We recommend purchasing and using Ajax devices in the same region. You can check the range of operating radio frequencies with the [technical support service](#).

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;
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- 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.



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Connecting to the hub

1. Open the Ajax PRO app. Select the space where you want to add the button.
2. Go to the **Devices**  tab and click **Add Device**.
3. Name the button, scan, or type in the QR code (placed on the button and the package box), and select a room and a group (if Group mode is enabled).
4. Press **Add**.
5. Hold the button for 7 seconds. When Button S is added, the LEDs will flash green once.

Note that if the maximum number of devices has already been added to the hub (depending on the hub model), you will be notified when you try to add a new one.

The button connected to the hub will appear in the list of hub devices in the Ajax app.

Button S works with one hub. When connected to a new hub, the button stops sending events to the old one. When added to a new hub, the button is not removed from the device list of the old hub. This must be done through the Ajax app.

Malfunctions


When a malfunction is detected, the Ajax app displays a malfunction counter on the device icon. All malfunctions are shown in the button **States**. Fields with malfunctions will be highlighted in red.







A malfunction is displayed if:

- No connection with the hub or radio signal range extender via Jeweller.
- The button battery is low.

Icons


The icons display some **Button S** states. To access them:




1. Sign in to the [Ajax app](#).
2. Select the space.
3. Go to the **Devices**  tab.

Icon	Meaning
	Jeweller signal strength. Displays the signal strength between the hub and the button. The recommended value is 2–3 bars. Learn more
	The button battery charge level is OK. Learn more
	The button has a malfunction. The list of malfunctions is available in the button states. Learn more
	The button operates via a radio signal range extender .
	Button S is permanently deactivated. Learn more
	The device was not transferred to the new hub.

States

The states include information about the device and its operating parameters. The states of Button S can be found in Ajax apps:

1. Sign in to the [Ajax app](#).
2. Select the space.
3. Go to the **Devices**  tab.
4. Select **Button S** from the list.

Parameter	Value
Malfunction	<p>Clicking on  opens the Button S malfunctions list.</p> <p>The field is displayed if a malfunction is detected.</p>
ReX	<p>Displays the status of using a radio signal range extender.</p>
Battery charge	<p>Battery level of the device. Two states available:</p> <ul style="list-style-type: none">• OK.• Low. <p>You can check the battery charge by clicking on the  icon (displayed when the Battery Charge Auto-Check option is enabled).</p> <div data-bbox="820 1995 1422 2219"> The feature is available when the button is connected to the hub with firmware version OS Malevich 2.17 or higher.</div>



	<p>How battery charge is displayed in Ajax apps</p> <p>How to replace the battery of the button</p>
Operating mode	<p>Displays the operating mode of the button. Three modes are available:</p> <ul style="list-style-type: none"> • Panic. • Control. • Mute Fire Alarm.
LED brightness	<p>Displays current brightness level of indicator light:</p> <ul style="list-style-type: none"> • Off (LED indication is disabled). • Low. • Max.
Accidental press protection (displayed only for Panic and Mute Fire Alarm operating modes)	<p>Displays the selected type of protection against accidental activation:</p> <ul style="list-style-type: none"> • Off – protection disabled. • Long press – to send an alarm, you should hold the button down for more than 1.5 seconds. • Double press – to send an alarm, you should double-press on the button with a pause of no more than 0.5 seconds.
Permanent deactivation	<p>Displays the device's status: active or completely disabled by the user.</p>
Firmware	<p>Button S firmware version.</p>
Device ID	<p>Device identifier. Also available on the device's board and its package.</p>


Device No.

The number of the device loop (zone).


Settings

To change Button S settings in the PRO Ajax apps:

1. Go to the **Devices**  tab.
2. Select **Button S** 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.

Parameter	Value
Name	Name of the device. Can be changed.
Room	The choice of the virtual room that the device is assigned to.
Battery charge auto-check	<p>If the toggle is enabled, the system checks the battery state of the device once a day. If the auto-check is disabled, the battery state updates only when the device is pressed.</p> <div style="border: 1px solid black; border-radius: 10px; padding: 10px; margin-top: 10px;">  The feature is available when the button is connected to the hub with firmware version OS Malevich 2.17 or higher. </div>
Notify if the device was unreachable for 3 days	When the toggle is enabled, the user receives a corresponding notification if the button has not communicated with the hub for three days. The setting is available when the Battery charge auto-check toggle is enabled.
Operating mode	Selection of the operating mode of the button. Three modes are available:

	<ul style="list-style-type: none"> • Panic – sends an alarm when pressed. • Control – controls automation devices by short or long (3 sec) pressing. • Mute Fire Alarm – when pressed, mutes the alarm of Ajax fire detectors. The option is available if the <u>Interconnected Fire Detectors Alarm</u> feature is enabled. <p><u>Learn more</u></p>
<p>Type of event</p> <p>(displayed only for Panic operating mode)</p>	<p>Selection of the Button S alarm type:</p> <ul style="list-style-type: none"> • Intrusion. • Fire. • Auxiliary alarm. • Panic button. • Gas alarm. • Malfunction. • Leakage. • Custom. <p>The text of SMS and notifications in the app depends on the selected type of alarm.</p>
<p>LED brightness</p>	<p>Selection of the current brightness of the indicator lights:</p> <ul style="list-style-type: none"> • Off (LED indication is disabled). • Low. • Max.
<p>Accidental press protection</p> <p>(displayed only for Panic and Mute Fire Alarm operating modes)</p>	<p>Selection of the type of protection against accidental activation:</p> <ul style="list-style-type: none"> • Off – protection disabled.

	<ul style="list-style-type: none"> • Long press – to send an alarm, you need to press and hold the button for more than 1.5 seconds. • Double press – to send an alarm, you need to double-press the button with a pause of no more than 0.5 seconds between the presses.
Alert with a siren if button is pressed	If the toggle is enabled, pressing a panic button activates Ajax sirens connected to the system. Button S activates all sirens, regardless of the groups they are in.
Scenarios	Opens the menu to create and configure the automation scenarios.
Battery state check	<p>Opens the menu for the battery charge checking.</p> <div style="border: 1px solid black; border-radius: 10px; padding: 10px; margin-top: 10px;">  The feature is available when the button is connected to the hub with firmware version OS Malevich 2.17 or higher. </div>
User guide	Opens Button S user manual.
Permanent deactivation	<p>Allows a user to deactivate the device without deleting it from the system.</p> <p>Once deactivated, the device will no longer execute system commands and participate in automation scenarios. Additionally, the panic button of a deactivated device will be disabled.</p> <p>Learn more</p>
Delete device	Disconnects Button S from the hub and deletes its settings.

Indication



00:00

00:03

The button status is indicated with red or green LED indicators.

Category	Indication	Event
Adding to the system.	Green LED flashes 6 times.	The button is not registered in any system.
	Lights up green for a few seconds.	Adding a button to the system.
Command delivery indication.	Lights up green briefly.	The command is delivered to the system.
	Lights up red briefly.	The command is not delivered to the system.
Long press indication in Control mode.	Flashes green briefly.	The button recognized the pressing as a long press and sent the corresponding command to the hub.
Feedback indication (follows the Command Delivery Indication).	Lights up green for about half a second after the command delivery indication.	The system has received and performed the command.
	Briefly lights up red after the command delivery indication.	The system did not perform the command.
Battery status (follows Feedback Indication).	After the main indication, it lights up red and goes out smoothly.	The button battery needs to be replaced. At the same time, button commands are delivered to the system. <u>Battery replacement</u>

Button placement

Button S can be secured on a surface or carried around.

How to mount Button S

To mount Button S on a surface (e.g. under a table), use Holder.



1. Choose a location to install Holder.
2. Press the button to test whether the commands can reach the hub. If not, select another location or use a radio signal range extender.



When connecting Button S via the radio signal range extender, note that Button S does not automatically switch between the radio networks of the radio signal extender and the hub. You can manually assign Button S to another hub or range extender in the app.

3. Fix Holder on the surface using the bundled screws or double-sided adhesive tape.
4. Put Button S into the holder.



Please note that Holder is sold separately.

How to carry Button S

The button is convenient to carry thanks to a special hole in its enclosure. It can be worn on the wrist, around the neck, or on a key ring.

Button S has an IP55 protection rating. This means that the device enclosure is protected from dust and splashes. Tight buttons are recessed into the enclosure and software algorithm helps to avoid accidental pressing.

Maintenance

Clean the Button S enclosure from dust, cobwebs and other contaminants as they appear. Use a soft, dry cloth for cleaning appliances.

Do not use substances containing alcohol, acetone, petrol and other active solvents to clean Button S.

The pre-installed battery provides up to 5 years of Button S operation in normal use (one press per day). More frequent use may reduce battery life. You can check the battery level in Button S states in the Ajax app.

The pre-installed battery is sensitive to low temperatures. If the device is cooled significantly, the battery level indicator in the app may show incorrect values until the device becomes warmer.

The battery level value updates automatically once a day if the battery charge auto-check option is enabled. If the auto-check is disabled, the battery state updates only when the button is pressed. When the battery has run down, the user will receive a notification in the Ajax app, and the LED indicator will smoothly light up red and go out each time the button is pressed.

[How to replace the button battery](#)

Technical specifications

[All technical specifications of Button S](#)

[Compliance with standards](#)

[Setup in compliance with EN 50131 requirements](#)

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 difficulties can be resolved remotely.

[Warranty obligations](#)

[User agreement](#)

Contact Technical Support:

- [e-mail](#)
- [Telegram](#)

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