AJAX SpaceControl

1. FEATURES

Ajax Space Control keyfob is used for activation / deactivation of Ajax security system, for partial activation and also as an alarm button.

2. SPECIFICATIONS

SPECIFICATION	MEANING
Buttons' quantity	4
Alarm button	available
Radio signal power	20 mW
Radio-frequency range	868 MHz (Europe); 915 MHz (USA)
Maximum distance between keyfob and central unit	1000 m (3300 ft) (open area)
Power supply	CR2032 battery
Power supply voltage	3V
Battery life	up to 5 years
Operation temperatures range	from -20°C (-4°F) to +50°C (+122°F)
Operation humidity	up to 90%
Dimensions	65x37x10 mm (2.5x1.45x0.4 in)

3. COMPONENTS

SpaceControl keyfob, battery CR2032, manual

4. SETTING-UP PROCEDURES

4.1 Before using the keyfob, it is required to register it with the Ajax security system.

4.2 In order to register the keyfob, it is necessary to switch the Ajax security system's receiver to «Add Device» mode (the receiver's manual explains how to accomplish it). During the receiver's functioning in «Add Device» mode, it is necessary to press simultaneously the buttons "1" and "4" (PICTURE 1), and then the keyfob will be registered in the security system.

In case the registration failed and the keyfob was not registered, it blinks with 4 lights, 6 times once in a second. It blinks the same way after pressing any button in case the keyfob is not registered with the security system.
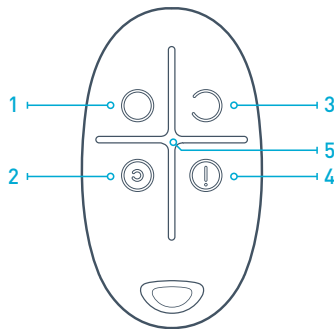
4.3 Once the keyfob registered with the receiver, it is ready for operating.

5. KEYFOB USE FOR SECURITY SYSTEM ARMING/DISARMING

5.1 It is required to check if the keyfob's buttons are functioning.

5.2 After pressing the button, the keyfob via the radio channel sends an appropriate encoded signal to the central unit. The keyfob uses a special wireless connection technology for messages encoding and anti-fraud protection.

5.3 The central unit handles the signal from the keyfob and turns on/off the security mode. Due to the two-way connection with the central unit, the keyfob receives the confirmation of the signal coming to the receiver. In case activation/deactivation signal for some reason was not received, the keyfob blinks momentarily 4 times. If the light indicator lights for 1 second when any button is pressed, it means that the signal was successfully transmitted to the receiver.

PICTURE 1.
Space Control keyfob's buttons

1 – "Armed mode activation" button
2 – "Partially armed mode activation" button
3 – "Disarmed mode activation" button
4 – "Alarm" button
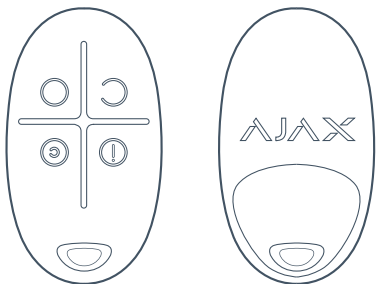5 – Light indicators of the keyfob functioning

> **⚠ ATTENTION!**
> A maximum distance of 1000 m (3300 ft) between the keyfob and the receiver is mentioned as a comparison with other devices. This distance was found as a result of open area tests. Connection quality and distance between the keyfob and the receiver can vary depending on installation location, walls, compartments, bridgings, as well as the thickness and constructional material. Coming through the obstacles, signal loses power. For example, distance range between the sensor and receiver divided with two reinforced concrete bearing walls constitutes approximately 30 m (98.4 ft).

5.4 In order to arm the security system, it is necessary to press the button "1" ("Armed mode activation"). When the button is pressed, the indicator's light is on for approximately 1 second and then turns off.

5.5 In order to disarm the security system, press the button "3" ("Disarmed mode activation"). After pressing the button, the indicator lights for one second and then switches off.

5.6 Button "2" is used to partially arm security system, when not all the sensors are turned to security mode but the defined part of them (for further details, consult the receiver's manual). For example, a part of the house, additional building or garage.

5.7 The keyfob had a special alarm button "4". When it is pressed, the security system's central unit is turned to "Alarm" mode immediately. (For further details, consult the receiver's manual).

PICTURE 2.
Space Control keyfob

6. WORKING WITH WIRELESS SENSORS' RECEIVER AJAX OCBRIDGE

6.1 The wireless sensor's receiver, ocBridge, permits to use the Space Control's functions with any central unit of the wired alarm system, or to use the keyfob's buttons for managing the smart home's household appliances. The ocBridge receiver permits to add the keyfob's buttons to the alarm zone or the automation zone. Only one keyfob's button can be added to one zone! In order to register the button in the zone, it is necessary to switch the ocBridge receiver to the "Add Device" mode for the selected zone. With ocBridge working in the "Add Device" mode, it is necessary to press simultaneously to buttons "1" and "4" on the keyfob. Then, on the receiver's side, the menu will open with the list of the buttons available for registration in the zone selected.

6.2 While using the ocBridge sensor's receiver, all the keyfob's buttons can be programmed for specified action. It is possible also to select between impulse and trigger reaction to pressing the button. If the impulse type of reaction is chosen, the zone reacts to the button pressing with make-and-break, depending on the setting "Initial mode" for the time specified in the setting "Impulse time". If the trigger reaction is chosen, the zone's output changes its initial state to the opposite one after each pressing of the button. When the trigger reaction is chosen, it is possible to manage switching on/off the electric appliances in the smart home system.

> ⚠ ATTENTION!
> While connecting the keyfob to the wireless sensors' receiver ocBridge, be careful in connecting the keyfob to the zones!
> Please, don't connect the keyfob to the zones with two-state sensor.

7. MAINTENANCE

7.1 Protect the keyfob from moisture, dust, and other impurities.

7.2 Replace the batteries up to date. When the battery has run down, if any button is pressed, the keyfob turns on its light and turns it off placidly. In order to replace the battery, and remove the keyfob's front cover. Replace the battery with a new one, type CR2032 observing the polarity. Make sure to check if the keyfob works after the battery is replaced.

> ⚠ ATTENTION!
> The keyfob's autonomous work duration depends on the button pressing frequency and the battery quality. On average, one battery is sufficient for 5 years of functioning.

8. WARRANTY

8.1 The keyfob's warranty period is 24 months. The warranty does not cover the battery!

9. VIDEO GUIDE

9.1 A detailed video guide for Ajax Space Control keyfob connection and use is available online on our website.