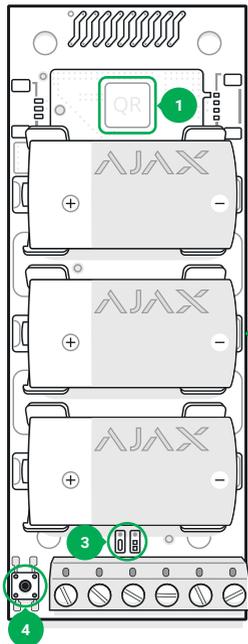Integration module
Model Name: **Ajax Transmitter**

Module for third-party detector integration

The Transmitter is a module for connecting third-party detectors to the Ajax security system. It transmits alarms and anti-tampering signals from external detectors; a built-in accelerometer protects it from dismounting. The module operates on batteries and can power the connected detector. The communication range can be up to 1,600 meters provided that there are no obstacles and the case is removed.

> **IMPORTANT: This Quick Start Guide contains general information about the Transmitter. Before using the device, we recommend to reviewing the User Manual on the website: ajax.systems/support/devices/transmitter**

FUNCTIONAL ELEMENTS

1. QR code
2. Battery contacts
3. Light indicator
4. On/off button
5. Power terminals for the detector, alarm and anti-tampering signals

IMPORTANT INFORMATION

This product can be used across all EU member states.

This device in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out.

CONNECTING AND SETTING UP

The Transmitter can only be connected to the Ajax security system, it is not compatible with Ajax ocBridge Plus or Ajax uartBridge.

The Transmitter is connected to the Hub and set up via the Ajax Security system mobile application. To establish connection please locate the module and the Hub within the communication range and follow the device adding procedure.

Set the following parameters in the Transmitter settings:

The state of the external detector contact, which can be normally closed or normally open.

The type (mode) of the external detector that can be bistable or pulse.

The state of the anti-tamper switch, which can be normally closed or normally open.

The accelerometer-triggered alarm — you can turn this signal off or on.

Select the power mode for the external detector:

Turned off when the Hub is not armed — the module stops powering the external detector upon disarming and does not process signals from the ALARM terminal. When arming the detector, the power supply resumes, but the alarm signals are ignored for the first 8 seconds.

Always off — the Transmitter saves energy by turning off the power of the external detector. The signals from the ALARM terminal are processed both in the pulse and bistable modes.

Always on — this mode should be used if there are any problems in the "Turned off when the Hub is not armed" mode. When the security system is armed, signals from the ALARM terminal are processed no more than once in three minutes in the pulse mode. If the bistable mode is selected, such signals are processed instantly.

If the **"24 hours" operating mode** is selected for the module, the external detector is powered only in the "Always on" or the "Turned off when the Hub is not armed" mode, regardless of the security system status.

COMPLETE SET

1. Transmitter
2. 3 x CR123A batteries
3. Installation kit
4. Quick Start Guide

CE CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

LOCATION SELECTION

The Transmitter should be located inside the case of the third-party detector. The module with mounting rack requires space with the following minimum dimensions: 100 x 39 x 29 mm. If the Transmitter can not be installed inside the case of the detector itself, you should use any available radio frequency-transparent case.

When choosing a location for a detector with the Transmitter module, take into account the presence of any obstacles impairing radio signal transmission.

Prior to the attachment of the detector to a surface with screws, please perform signal level test in the Ajax Security System application for at least a minute.
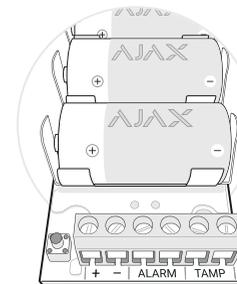
Status indicator		Signal level
Lights with interruptions once every 1.5 seconds		Excellent signal level
Blinks 5 times per second		Good signal level
Blinks 2 times per second		Bad signal level
Lights up for a short time once every 1.5 seconds		No signal

INSTALLING AND CONNECTING THE DETECTOR

1. Connect the Transmitter to the NC/NO (select the appropriate setting in the app) and COM contacts of the detector.

The maximum cable length for connecting the sensor is 150 m (24 AWG twisted pair). The value may vary when using different type of cable.

Function of the Transmitter Terminals:

Power		ALARM		TAMPER	
+	–	NC/NO	COM	NC/NO	COM

2. Secure the Transmitter inside the detector case. It is recommended to use the plastic stands that are included in the Transmitter installation kit.

TECH SPECS

Connecting a detector	ALARM and TAMPER (NO/NC) terminals
Mode for processing alarm signals from the detector	Pulse or Bistable
Power	3 x CR123A, 3 V batteries
Capability to power the connected detector	Yes, 3.3 V
Protection from dismounting	Accelerometer
Frequency band	868.0-868.6 MHz
Effective radiated power	5.48 dBm / 3,53 mW (limit 20 mW)
Modulation	GFSK
Communication range	Up to 1,600 m (any obstacles absent)
Ping interval for the connection with the receiver	12–300 sec
Operating temperature	From -25°C to +50°C
Operating humidity	Up to 75%
Dimensions	100 x 39 x 22 mm
Weight	74 g

WARRANTY

Warranty for Ajax devices is valid for two years after the purchase date and does not apply to the supplied 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 is available on the website: ajax.systems/warranty

User Agreement: ajax.systems/end-user-agreement

Technical support: support@ajax.systems