

# MultiTransmitter

Module to integrate third-party wired detectors with Ajax security system



A hub is required for operation. Find the detailed information on the device by the link:

<https://ajax.systems/support/devices/multitransmitter/>



2 GRADE EN 50131

PD 6662 2017

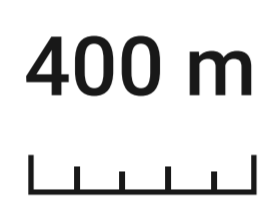
INCERT

NFA2P

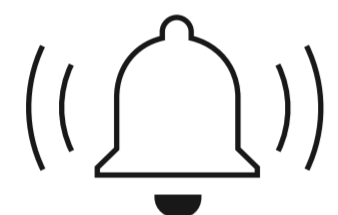
UL® LISTED



18 inputs for third-party wired devices



Up to 400 m of cable length between devices and MultiTransmitter



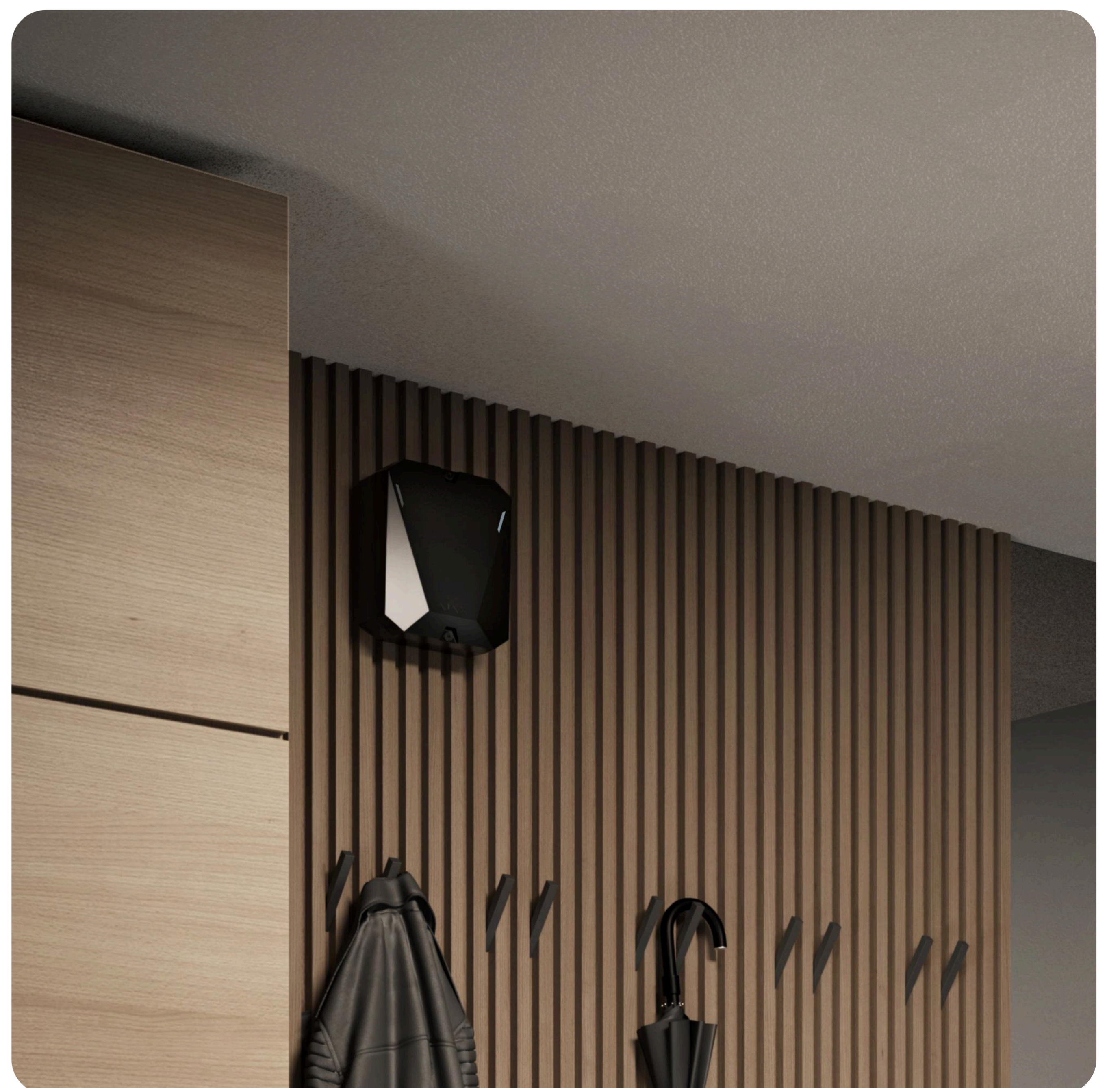
Numerous event types for each connected device

## The second life of an old wired alarm

MultiTransmitter opens new markets and allows building modern complex security based on existing wired equipment installed at a facility.

Ajax's security system users get security control via app, data-rich notifications, and scenarios with this integration module and old third-party wired devices.

An installer can set up the system or device in the PRO app, both while on-site and remotely.



# Maximum compatibility with the new firmware

MultiTransmitter allows connecting a wide range of wired sensors. The integration module with firmware version 2.13.0 and later supports NC, NO, EOL, 2EOL, and 3EOL connection types. EOL resistance detects automatically in the PRO app.

The device supports EOL's with resistance from 1 k $\Omega$  to 15 k $\Omega$  each with total resistance of 30 k $\Omega$ . To increase the protection against sabotage, EOL's with different resistance can be used in one sensor.

MultiTransmitter has three independent 12 V $\Rightarrow$  power outputs for third-party wired sensors: one for fire sensors and two for the rest devices. Recommended EOL ratio:  $R_1 = R$  ,  $R_2 = 2 \cdot R$  ,  $R_3 = 3 \cdot R$  .

MultiTransmitter has four 12 V $\Rightarrow$  power outputs for third-party wired sensors: one for fire sensors and three for other devices.



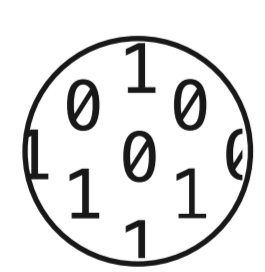
We'll stop shipping old versions of MultiTransmitter in favor of the new one. New devices will have different packaging with 3EOL icons to avoid confusion. Choose and install the equipment that precisely matches the client's needs.

# Two-way encrypted communication

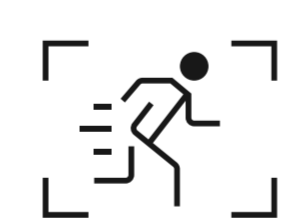


**Jeweller** is a two-way **wireless data transfer protocol** that provides fast and reliable communication between hub and devices. The protocol delivers instant data-rich alarms: security companies and users know which device was triggered, when and where it happened.

Jeweller features **encryption** and **authentication** to prevent forgery and **polling** to display devices' status in real time. Supporting **up to 2,000 m** of wireless connectivity, Jeweller is ready to protect facilities and deliver **the best user experience** for both end users and installers.





Up to 2,000 m of two-way encrypted wireless communication



Alarm delivery in 0.15 s

# Technical specifications

<p>Compliance with standards</p> <p>EN 50131 (Grade 2)          PD 6662:2017          INCERT          NFA2P          UL985, UL1023, UL2610          ULC S545, ULC S304</p>	<p>Compatibility with hubs and range extenders</p>  <p>For detailed information, scan the QR code or follow the link:</p> <p><a href="https://ajax.systems/tools/devices-compatibility/?models=MTR.Y.J">ajax.systems/tools/devices-compatibility/?models=MTR.Y.J</a></p>
<p>Communication with control panel</p> <p> <b>Jeweller communication technology</b></p> <p><b>Frequency bands</b>          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 region of sale</p> <p><b>Maximum effective radiated power (ERP)</b>  <math>\leq 25</math> mW</p> <p><b>Communication range</b>          up to 2,000 m          in a line of sight</p> <p><b>Polling interval</b>          12–300 sec          Set by admin in the app</p>	<p>Connected devices</p> <p><b>Number of zones</b>          18          One wired device per zone</p> <p><b>Connection types</b>          NO, NC, EOL          With MultiTransmitter firmware version under 2.13.0</p> <p>NO, NC, EOL, 2EOL, 3EOL          With MultiTransmitter firmware version 2.13.0 and later</p> <p><b>EOL resistance</b>          from 1 k<math>\Omega</math> to 7.5 k<math>\Omega</math>          with 100 <math>\Omega</math> increment          With MultiTransmitter firmware version under 2.13.0</p> <p>from 1 k<math>\Omega</math> to 15 k<math>\Omega</math> for each resistor, up to 30 k<math>\Omega</math> of total resistance          With MultiTransmitter firmware version 2.13.0 and later, EOL resistance measured automatically in PRO apps</p> <p><b>Alarm types</b>          pulse, bistable</p>

<p>Casing</p> <p><b>Colour</b> white, black</p> <p><b>Dimensions</b> 196 × 238 × 100 mm</p> <p><b>Weight</b> 805 g</p> <p><b>Tampering alarm</b> Two tampers to detect the lid opening and alert of detachment from a wall</p>	<p>Connected devices</p> <p><b>Cable length between detectors and MultiTransmitter</b> up to 400 m When using a signal cable with a 0.22 mm<sup>2</sup> copper-clad aluminium conductor</p> <p><b>Power supply for connected devices</b> 4 main power outputs: 10.5–15 V<sub>DC</sub>, up to 1 A in total One power output for fire detectors, and three outputs for other devices</p>
<p>Power supply</p> <p><b>Main power supply</b> 100–240 V, 50/60 Hz</p> <p><b>Backup power supply</b> 12V<sub>DC</sub> accumulator with up to 7 Ah capacity with a full charge cycle of up to 30 h Backup battery not included</p>	<p>Installation</p> <p><b>Operating temperature range</b> from -10°C to +40°C</p> <p><b>Operating humidity</b> up to 75%</p> <p><b>Ingress protection</b> IP50</p>
<p>Complete set</p> <p>MultiTransmitter Power cable Screw terminal block Adapter* 12 V<sub>DC</sub> battery connection cable Casing Installation kit Quick start guide</p>	

\*Only for INCERT compliance.