3EOL support

Jeweller

MultiTransmitter

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



2 GRADE EN 50131

PD 6662 2017

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

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

18 inputs for third-party wired devices

400 m

Up to 400 m of cable length between devices and MultiTransmitter

9 types of alarms 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 higher 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 kΩ to 15 kΩ[1] each with total resistance of 30 kΩ. To increase the protection against sabotage, EOL's with different resistance can be used in one sensor. MultiTransmitter has three independent 12 V⎓ power outputs for third-party wired sensors: one for fire sensors and two for the rest devices. Recommended EOL ratio: R1═R , R2═2·R , R3═3·R .

MultiTransmitter has four 12 V⎓ 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

Compliance with standards	EN 50131 (Grade 2) PD 6662:2017
Communication with control panel	**Jeweller communication technology** **Frequency bands** 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 **Maximum effective** radiated power (ERP) ≤ 25 mW **Communication range** up to 2,000 m in a line of sight **Polling interval** 12–300 sec Set by admin in the app
Compatibility	**Hubs** All Ajax hubs[2] **Range extenders** all Ajax radio signal range extenders
Connected devices	**Number of zones** 18 One wired device per zone **Connection types** NO, NC, EOL With MultiTransmitter firmware version under 2.13.0 NO, NC, EOL, 2EOL, 3EOL With MultiTransmitter firmware version 2.13.0 and higher **EOL resistance** from 1 kΩ to 7.5 kΩ with 100 Ω increment With MultiTransmitter firmware version under 2.13.0 from 1 kΩ to 15 kΩ for each resistor, up to 30 kΩ of total resistance With MultiTransmitter firmware version 2.13.0 and higher, EOL resistance measured automatically in PRO apps **Alarm types** pulse, bistable

Casing	**Colour** white, black **Dimensions** 196 × 238 × 100 mm **Weight** 805 g Tampering alarm Two tampers to detect the lid opening and alert of detachment from a wall
Connected devices	**Cable length between detectors and MultiTransmitter** up to 400 m When using a signal cable with a 0.22 mm² copper-clad aluminium conductor **Power supply for connected devices** 4 main power outputs: 10.5–15 V⎓, up to 1 A in total One power output for fire detectors, and three outputs for other devices
Power supply	**Main power supply** 100–240 V, 50/60 Hz **Backup power supply** 12V⎓ accumulator with up to 7 Ah capacity with a full charge cycle of up to 30 h Backup battery not included
Installation	**Operating temperature range** from −10°C to +40°C **Operating humidity** up to 75% **Ingress protection** IP50
Complete set	MultiTransmitter Power cable 12 V⎓ battery connection cable Casing Installation kit Quick Start Guide

[1] — Hub does not support 2EOL/3EOL connection types.