EN54 I/O Module (2X2) Jeweller

Wireless addressable module with two inputs
and two outputs for a fire alarm system

EN 54-18

EN 54-25



Rules met. Conventions shattered.

EN54 I/O Module (2X2) Jeweller integrates third-party devices into an Ajax system in full compliance with EN 54 standards.
With two outputs, the module can enhance emergency response by controlling gates, door locks, lighting, alert systems, and other life safety equipment. Two inputs allow the integration of existing detectors or devices outside the Ajax portfolio, such as beam smoke detectors, elevator control panels, or HVAC systems. Built-in communicators ensure a reliable, long-range connection to the CIE.
The module and connected third-party devices can be configured in just minutes via an intuitive Ajax app.

Automated response at the first sign of danger

- Two galvanically isolated relay outputs, each supporting AC or DC
- Option to control connected devices via Ajax apps

Smart integration of third-party devices

- Two inputs supporting NC, NO, EOL, 2EOL, and 3EOL connection types
- Selectable event types for connected devices

EN54 I/O Module (2X2) Jeweller does not require an external power supply and cannot provide power to connected devices.

Built-in radio communication via Jeweller protocol

EN 54-25

- Up to 1,700 m of wireless communication range with the CIE in open space
- Option to connect the device to an Ajax range extender (sold separately)
- Smart radio technology: automatic power adjustment, frequency hopping, and connection loss detection

Efficient autonomy for years to come

- Up to 5 years of battery life
- Early low battery notifications in Ajax apps
- Quick battery replacement

Hassle-free installation and maintenance

- Adding to the CIE by scanning the QR code — no tools or programming required
- Versatile cable routing: from the back, sides, top, or bottom
- Protective housing for the board to prevent damage during installation
- EOL resistors included in the complete set

Compliance with standards

EU CPR: EN 54-18, EN 54-25

Directive 2014/53/EU (RED)

Compatibility with the CIE and range extenders

For detailed information, scan the QR code or follow the link:

ajax.systems/tools/devices-compatibility/?models=IOM.54.J

Communication with the CIE or range extender

Jeweller communication technology

Communication range
up to 1,700 m
In open space

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 sales region

Maximum effective radiated power (ERP)
up to 20 mW

Features

Number of outputs
2 galvanically isolated relay outputs

AC operating range
10—250 V~, up to 10 A

DC operating range
10—30 V⎓, up to 5 A

Number of inputs
2

Connection types
NO, NC, EOL, 2EOL, 3EOL

Multiple event types for connected devices

Power supply

Battery
2 × CR123A
Pre-installed

Battery life
up to 5 years

Installation

Operating temperature range
from 0 °C to +50 °C

Operating humidity
up to 80%

Enclosure

Color
black, white

Dimensions
116 × 180 × 62 mm

Weight
547 g

Protection class
IP21C

Flammability rating
UL 94 V-0

Complete set

EN54 I/O Module (2X2) Jeweller
2 × CR123A battery (pre-installed)
Installation kit
2 × set of 4 EOL resistors
Quick start guide

For detailed information, scan the QR code or follow the link:

ajax.systems/support/devices/en54-io-module-2x2-jeweller

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