EN54 I/O Module (2X2) Jeweller

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

Communication	**Jeweller communication technology**
	Proprietary wireless communication technology to transmit commands, alarms, and events.
	Key features:
	• Two-way communication.
	• Advanced sabotage protection.
	• Block encryption featuring a dynamic key.
	• Instant notifications.
	• Remote control and configuration in Ajax apps.
	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
	Automatic power control to reduce power consumption and radio interference.
	Radio signal modulation
	GFSK
	Radio communication range
	up to 1,700 m
	up to 5,550 ft
	Between the device and a control and indicating equipment (CIE) or a range extender in an open space.
	Encrypted communication
	All stored and transmitted data is protected by block encryption featuring a dynamic key.
	Frequency hopping
	To prevent radio interference and jamming.

Inputs	**Number of input lines for third-party devices** 2 **Input terminals** ● **Input 1, Input 2** — inputs for connecting third-party wired devices. ● **Shield** — common input for connecting shields of the cables that connect third-party wired devices. **Type of connection** NO, NC, EOL, 2EOL, 3EOL **EOL resistance** 0.47 kΩ, 1.2 kΩ, 2.7 kΩ, and 6.2 kΩ resistors Four resistors for each input are included in the complete set. **Length of wired connection to third-party devices** up to 100 m up to 325 ft When 2×1.5 mm^2 (16 AWG) fire-resistant cable is used. **Cross-sectional area of the cable** 0.4−2.5 mm² (21−13 AWG)
Outputs	**Number of output lines for third-party devices** 2 **Output terminals** ● **Output 1, Output 2** — relay outputs for connecting third-party wired devices. **AC operating range** 10−250 V~, 5 mA to 10 A (resistive load) **DC operating range** 10—30 V⁼, 5 mA to 5 A (resistive load) **Cross-sectional area of the cable** 0.4−2.5 mm² (21−13 AWG) **Operating mode** ● pulse ● bistable **Pulse duration** from 1 s to 1 h 30 min Pulse duration can be configured for pulse mode in Ajax apps separately for each relay.

Key features	**Event types** An Ajax app specifies event types for wired device inputs. The selected type determines the text of alarm notifications and events of the connected device, as well as event codes transmitted to the CMS. A PRO or a user with admin rights can configure the event type in an Ajax app. **Automation scenarios** The scenarios can be configured in Ajax apps separately for each relay. **Fail-safe mode** If the module is offline, discharged, or has hardware problems, it activates the connected devices automatically.
Installation recommendations	The device is designed for indoor use only.
Sabotage protection	**Tamper alarm** Notifications of attempts to detach the module from the surface or open the front lid. **Protection against spoofing** device authentication **Connection loss detection** after 36 s Detection time depends on **Jeweller** settings. **Input monitoring** detection of wired connection loss, short circuits, and malfunctions when the EOL, 2EOL, or 3EOL connection is used Depends on the connection type.
Power supply	**Battery** 2 × CR123A Pre-installed. **Calculated battery life** up to 5 years

Casing	**Dimensions** 116 × 180 × 62 mm 4.57" × 7.09" × 2.44" **Weight** 547 g 19.3 oz **Operating temperature range** from 0 °C to +50 °C from 32 °F to 122 °F **Operating humidity** up to 80% **Protection class** IP21C **Flammability rating** UL 94 V-0
Color	**Black** **White**
Complete set	EN54 I/O Module (2X2) Jeweller 2 × CR123A battery (pre-installed) Installation kit 2 × set of 4 EOL resistors Quick start guide
Warranty	24 months