eurotech®
FIRE SYSTEMS LIMITED

Ajax Relay Jeweller

Wireless dry contact relay.

TECHNICAL SPECIFICATION

Communication	**Jeweller communication technology**	Power supply	**External power supply**
	Proprietary wireless communication technology to transmit commands, alarms, and events.		7–24 V⎓
	• Two-way communication.		The relay does not supply additional power to devices connected to it.
	• Advanced anti-sabotage.		
	• Block encryption featuring a dynamic key.		**Energy consumption**
	• Instant notifications.		up to 1 W in standby mode.
	• Remote control and configuration in Ajax apps.		**Cross-sectional area of the cable**
			0.75–1.5 mm² (22–14 AWG)
	Frequency bands		
	866.0–866.5 MHz		**Maximum resistive load**
	868.0–868.6 MHz		up to 5 A at 24 V⎓
	868.7–869.2 MHz		up to 13 A at 110–230 V~
	905.0–926.5 MHz		
	915.85–926.5 MHz		**Maximum inductive/capacitive load**
	921.0–922.0 MHz		up to 3 A at 24 V ⎓
	Depends on the sales region.		up to 8 A at 110–230 V~
	Maximum effective radiated power (ERP)		**Voltage protection**
	up to 25 mW		minimum — 6.5 V⎓
			maximum — 36.5 V⎓
	Radio signal modulation		Once the supply voltage exceeds the specified levels, the relay turns off automatically.
	GFSK		
	Radio communication range		**Temperature protection**
	up to 1,000 m		over +65 °C at the installation site
	Between the relay and a hub (or a range extender) in an open space.		over +85 °C inside the relay
	Encrypted communication		
	All stored and transmitted data are protected by block encryption featuring a dynamic key.		
	Frequency hopping		
	To prevent radio interference and jamming.		

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Key features	**Control via smartphone** The user can set up the relay configurations and receive notifications in an Ajax app. **Automation scenarios** • By arming/disarming • By schedule • By alarm • By temperature • By humidity1 • By CO_2 concentration1 • By touching LightSwitch / pressing Button **Adjustable pulse duration** from 0.5 to 255 s **Operation modes** • pulse • bistable **Contact state** • normally open • normally closed	Sabotage protection	**Protection against spoofing** device authentication **Communication loss detection** after 36 s Detection time depends on the Jeweller or Jeweller/Fibra settings.
Enclosure	**Dimensions** 39 × 33 × 18 mm **Weight** 25 g **Operating temperature range** from −10 °C to +64 °C **Operating humidity** up to 75% **Protection class** IP20	Complete set	Relay Jeweller Double-sided adhesive tape Quick start guide

Recommendations

Suitable for indoor or outdoor use when installed in a hermetically sealed enclosure. It is recommended to mount Relay Jeweller on a DIN rail using DIN Holder, which is sold separately.

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