

EN54 Fire ReX Jeweller

Wireless addressable radio signal range extender for a fire alarm system,
supporting intrusion protection devices

Connection possibilities	Number of EN54 Fire ReX Jeweller connected to the hub up to 5 Number of devices connected to EN54 Fire ReX Jeweller up to 199
Wireless communication	Jeweller communication technology Proprietary wireless communication technology to transmit commands, alarms, and events. Key features: <ul style="list-style-type: none">• 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 1,800 m up to 5,900 ft Between the CIE and connected devices (in an open space).

	<p>Maximum range depends on the connected device.</p> <p>Encrypted communication All stored and transmitted data are protected by block encryption featuring a dynamic key.</p> <p>Frequency hopping To prevent radio interference and jamming.</p> <p>Wings communication technology Proprietary wireless communication technology to transmit photo verifications and update firmware.</p> <p>Key features:</p> <ul style="list-style-type: none">• Two-way communication.• Advanced sabotage protection.• Block encryption featuring a dynamic key.• Data packages reload in case of transmission errors.• Photo delivery check. <p>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.</p> <p>Radio communication range up to 1,800 m up to 5,900 ft Between the CIE and a radio signal range extender, or between a range extender and connected devices (in an open space). Maximum range depends on the connected device.</p> <p>Encrypted communication All stored and transmitted data is protected by block encryption featuring a dynamic key.</p> <p>Frequency hopping To prevent radio interference and jamming.</p>
Communication channel	Ethernet

	1 8P8C socket Up to 100 Mbps.
Delivery time	<p>Alarm delivery time to the CIE 0.3 s</p> <p>Photo delivery time to the CIE 18 s Via EN54 Fire ReX Jeweller using the Wings channel. Delivery time depends on the settings.</p> <p>10 s Via EN54 Fire ReX Jeweller using the Ethernet channel. Delivery time depends on the settings.</p>
Additional features	<p>LED indication green For power supply status.</p> <p>yellow For device faults.</p> <p>Special tool (key) The special tool is used to unlock the housing and replace the internal battery or dismantle the device from the SmartBracket mounting panel. The battery is not included in the range extender complete set.</p>
Installation recommendations	The device is designed for indoor use only. Use GlandBox if power and signal cables are not routed inside the wall. The device operating voltage is 110–240 V~.
Sabotage protection	<p>Tamper buttons 2 Notifications about the fault on attempts to detach the device from the surface or remove the mounting panel.</p> <p>Protection against spoofing device authentication</p> <p>Connection loss detection after 36 s Detection time depends on Jeweller settings.</p>

Power supply	<p>External 110–240 V, 50/60 Hz Up to 0.48 A of mains power consumption.</p> <p>Internal 7.4 V_≈, 5 Ah/10 Ah On Rechargeable Li-ion battery not included in the complete set: EN54 Internal Battery (24h) or EN54 Internal Battery (72h).</p>
Autonomous operation	<p>On internal battery up to 24 hours When Ethernet is enabled. On EN54 Internal Battery (24h) not included in the complete set.</p> <p>up to 72 hours When Ethernet is enabled. On EN54 Internal Battery (72h) not included in the complete set.</p>
Enclosure	<p>Dimensions 210 × 210 × 51 mm 8.27" × 8.27" × 1.99"</p> <p>Weight 698 g 1.54 lbs</p> <p>Operating temperature range from -10 °C to +40 °C from 14 °F to 104 °F</p> <p>Operating humidity up to 75% non-condensing</p> <p>Protection class IP20</p> <p>Flammability rating UL 94 V-0</p>
Color	<p>Black White</p>
Complete set	<p>EN54 Fire ReX Jeweller SmartBracket mounting panel</p>

	Installation kit Ethernet cable Special tool (key) Quick start guide
Revision	1
Warranty	24 months