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# Commercial Wireless ISW-EN4204R LED Receiver



- ▶ **Monitors up to four transmitters or repeaters**
- ▶ **Cost-effective solution for small systems**
- ▶ **Flexible alarm and fault output**
- ▶ **Wireless registration**
- ▶ **Compatible with a variety of transmitters and control panels**
- ▶ **Secure wireless implementation**
- ▶ **Exclusive wireless protocol ensures maximum performance and reliability**

The ISW-EN4204R LED Receiver integrates up to four 900 MHz wireless transmitters into any application. The Commercial Wireless platform uses diversity reception and advanced signal processing to reduce dead spots in transmission areas. The LED clearly shows the current status for each transmitter. The receiver provides versatile options for adding high performance wireless to an installation.

## Wireless 900 MHz Band

The Commercial Wireless platform sends redundant information on several multi-frequency channels within the FCC Part 15 900 MHz band, providing superior range and reliability. In comparison, systems that use a single frequency technology can only send information on one narrow band channel. Any interference within the band can cause missed signals. With wireless registration, it is easy to add this technology to any application.

## System Overview

### Powered by Inovonics

The Commercial Wireless platform, powered by Inovonics wireless mesh network technology, ensures superior range, reliability, and scalability for commercial applications. Using a wide range of transmitters and repeaters, this proven technology provides flexibility and performance to meet the most stringent requirements. This exclusive protocol is available only on Commercial Wireless products.

## Functions

### Flexible Outputs

Transmitters and repeater faults and alarms map to any of the receiver models.

### Wireless Registration

There is no external programmer required. The transmitter is enrolled using a wireless programming routine built into the receiver. Wireless registration reduces installation time.

### Secure Wireless Implementation

Jam detection monitors all channels for the presence of interference for more than 20 sec. A reset terminal is inside the receiver, allowing the receiver to accept external reset signals. The receiver includes case tamper and internal antennas for added security.

**Status Indication**

LEDs show the current condition of each transmitter, including activation, tamper, low battery, and inactivity.

**Supervision and Expansion**

Transmitter supervisory check-in and a transmitter specific supervisory window, defined in the receiver, support sites with both removable pendants and fixed-position transmitters. The technology also supervises repeaters.

Enroll, supervise, and map up to four wireless transmitters and repeaters using the appropriate outputs. Configure transmitters and repeaters individually to best suit the application. Each includes a fifth output used for fault reporting.

**Certifications and Approvals**

Inovonics Wireless Corporation holds the following approvals:  
 FCC Conforms to FCC Part 15 regulations

**Installation/Configuration Notes**

**Compatibility Information**

The ISW-EN4204RLED Receiver is compatible with the following products:

**Repeater**

ISW-EN5040-T High-power Repeater

**Transmitters**

ISW-EN1210	Universal Transmitter (Single-input)
ISW-EN1210EOL	Universal Transmitter with EOL Resistor
ISW-EN1210SK	Survey Transmitter
ISW-EN1210W	Door-Window Transmitter with Reed Switch
ISW-EN1215EOL	Universal Transmitter with Wall Tamper and EOL Resistor
ISW-EN1215WEOL	Door-Window Transmitter with Wall Tamper, Reed Switch, and EOL Resistor
ISW-EN1223D	Water-resistant Pendant Transmitter (Double-button)
ISW-EN1223S	Water-resistant Pendant Transmitter (Single-button)
ISW-EN1223SK	Survey Pendant Transmitter
ISW-EN1233D	Necklace Pendant Transmitter (Double-button)
ISW-EN1233S	Necklace Pendant Transmitter (Single-button)
ISW-EN1235D	Beltclip Pendant Transmitter (Double-button)
ISW-EN1235S	Beltclip Pendant Transmitter (Single-button)
ISW-EN1235DF	Fixed-location Transmitter (Double-button)
ISW-EN1235SF	Fixed-location Transmitter (Double-button)
ISW-EN1242	Smoke Detector-Transmitter
ISW-EN1247	Glass-break Sensor Transmitter

ISW-EN1249	Billtrap Transmitter
ISW-EN1260	PIR Motion Sensor-Transmitter (Commercial and High-end Domestic Applications)
ISW-EN1261HT	PIR Motion Sensor-Transmitter (High-traffic Areas)
ISW-EN1262	PIR Motion Sensor-Transmitter (Residential and Low-traffic Commercial Applications)
ISW-EN1265	PIR Motion Sensor-Transmitter (Ceiling-mount Applications)

**Parts Included**

Quant.	Component
1	ISW-EN4204R Receiver
1	Hardware pack
1	Literature – Installation and Operation Manual

**Technical Specifications**

**Electrical**

Power Requirements: 10 VDC to 14 VDC

**Outputs**

Rating:	1 A, 28 VDC, or 0.5 A, 30 VAC (resistive)
Types:	<ul style="list-style-type: none"> <li>Four Form C relays for connecting to any control panel or for stand-alone wireless applications (NO or NC)</li> <li>One NO Receiver case tamper contact closure</li> <li>One NC Receiver jam input indication</li> </ul>

**Environmental**

Relative Humidity:	Up to 90%, non-condensing
Temperature (operating):	0°C to +60°C (+32°F to +140°F)

**Mechanical**

Material:	ABS
Closure:	Latching with optional screws for high security installations
Dimensions:	16.5 cm x 8.9 cm x 2.5 cm (6.5 in. x 3.5 in. x 1 in.)
Weight:	204 g (7.2 oz)

**Reception Characteristics**

Frequency Compatibility:	902 MHz to 928 MHz
Transmitters:	Supports up to four

**Trademarks**

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**Ordering Information**

**Commercial Wireless ISW-EN4204R LED Receiver**      **ISW-EN4204R**

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