


BOSCH

Invented for life

Commercial Wireless ISW-EN1210x Universal Transmitters



- ▶ Programmable as normally-open (NO) or normally-closed (NC)
- ▶ Small unobtrusive design
- ▶ Fully supervised
- ▶ Includes battery, case tamper, and mounting bracket
- ▶ Exclusive wireless protocol ensures maximum performance and reliability

The Universal Transmitters can make nearly any normally-open (NO) or normally-closed (NC) sensor a wireless device. The Universal Transmitters work with shock sensors, holdup buttons, pressure mats, temperature sensors, status relays, other devices.

The line of universal transmitters contains the following products:

- 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

The Commercial Wireless platform uses diversity reception and advanced signal processing to reduce dead spots in transmission areas. The transmitters have superior range and reliability, and are ideally suited for commercial or residential installations. They are fully supervised and include a battery, a case tamper, and a mounting bracket.

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.

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.

Functions

NO or NC Operation

The universal transmitters work with any standard NO or NC contact (15 ms duration) or sensor.

Supervision

The cover tamper and battery activity are supervised. Monitoring helps ensure reliable operation.

Design

The small, unobtrusive design of the transmitters makes them suitable for multiple design needs.

Cover Tamper

The cover tamper switch notifies the system when an intruder attempts to remove the transmitter cover.

Certifications and Approvals

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

Installation/Configuration Notes

The Universal Transmitters are compatible with the following products:

Receivers

ISW-EN4016SK	Survey Receiver
ISW-EN4200	Serial Receiver
ISW-EN4216R	LCD Receiver
ISW-EN4204R	LED Receiver
ISW-EN7280	Serial Receiver

Repeater

ISW-EN5040-T High-power Repeater

Mounting Considerations

The transmitters include a mounting bracket that hinges to the transmitter for easy installation. Installers simply mount the bracket and snap the transmitter into place.

Parts Included

ISW EN1210

Quant.	Component
1	Transmitter with cover tamper
1	3.0 V lithium battery
1	Mounting bracket
1	Hardware pack
1	Literature – Installation Instructions

ISW-EN1210EOL

Quant.	Component
1	Transmitter with cover tamper and EOL resistor
1	3.0 V lithium battery
1	Mounting bracket
1	Hardware pack
1	Literature – Installation Instructions

ISW EN1210SK

Quant.	Component
1	Transmitter with cover tamper and clear plastic case
1	3.0 V lithium battery
1	Mounting bracket
1	Hardware pack
1	Literature – Installation Instructions

ISW EN1210W

Quant.	Component
1	Transmitter with cover tamper and reed switch
1	Magnet
1	3.0 V lithium battery
1	Mounting bracket
1	Hardware pack
1	Literature – Installation Instructions

Technical Specifications

Electrical

Power:	3.0 V, 1.4 Ah
Battery Replacement:	Duracell DL123A, Panasonic CR123A, or approved equivalent. Not all brands are equivalent. Use a specified brand.
Battery Life (Average):	3 to 5 years. Typical battery life shown assumes operating temperatures of +20°C to +30°C (+68°F to +86°F)

Environmental

Relative Humidity:	Up to 90% , non-condensing
Temperature (operating):	-20°C to +60°C (-4°F to +140°F)

Mechanical

Dimensions:	8.9 cm x 4.3 cm x 2.3 cm (3.5 in. x 1.7 in. x 0.9 in.)
-------------	---

Transmission Characteristics

Frequency:	902 MHz to 928 MHz
------------	--------------------

Trademarks

Trademark names are used throughout this document. In most cases, these designations are claimed as trademarks or registered trademarks in one or more countries by their respective owners. Rather than placing a trademark symbol in every occurrence of a trademark name, Bosch Security Systems, Inc. uses the names only in an editorial fashion and to the benefit of the trademark owner with no intention of infringing the trademark.

Duracell is a registered trademark of the Gillette Company, USA, in the United States and/or other countries.

Inovonics is a trademark of Inovonics Wireless Corporation.

Panasonic is a registered trademark of Matsushita Electric Industrial Co., Ltd.

Ordering Information

Commercial Wireless ISW-EN1210 Universal Transmitter (Single-input) Use with any standard NO or NC contact (15 ms duration) or sensor	ISW-EN1210
Commercial Wireless ISW-EN1210EOL Universal Transmitter with EOL Resistor Use with any standard NO or NC contact (15 ms duration) or sensor	ISW-EN1210EOL
Commercial Wireless ISW-EN1210SK Survey Transmitter Dedicated survey transmitter for use with the ISW-EN4016SK Survey Receiver	ISW-EN1210SK
Commercial Wireless ISW-EN1210W Door-Window Transmitter with Reed Switch Universal transmitter with one internal contact magnetic reed switch	ISW-EN1210W

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3453
Fax: +65 6319 3499
apr.securitysystems@bosch.com
www.boschsecurity.com

Represented by