



**BOSCH**

Invented for life

# Commercial Wireless ISW-EN1265 PIR Motion Sensor-Transmitter (Ceiling-mount Applications)



- ▶ **360° by 20 m (65.6 ft) coverage**
- ▶ **Automatic supervision of radio link**
- ▶ **Low power consumption**
- ▶ **Highly sensitive to moving infrared radiation**
- ▶ **Immunity to Radio Frequency Interference (RFI), vibration, static, lightning, and ambient temperature changes**
- ▶ **Advanced digital signal processing**
- ▶ **Attack-resistant cover**
- ▶ **Long battery life**
- ▶ **Exclusive wireless protocol ensures maximum performance and reliability**

The ISW-EN1265 PIR Motion Sensor-Transmitter is appropriate for ceiling-mount applications and large open spaces. It detects intruders using a pyro sensor element. Advanced signal processing recognizes human signature size and movement, reducing false alarms. The sensor is equipped with a special hard lens that provides large coverage patterns even at low height. It is immune to sunlight, halogen light, and fluorescent light. The enclosure is resistant to attack from intruders.

## 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

### Battery Sleep Time

Designed specifically for wireless applications, this PIR has a 180 sec fixed or variable sleep time. When the variable sleep time is chosen, it has the intelligence to remain in sleep mode beyond 180 sec during high-traffic periods to provide extended battery life.

### Ceiling Mount Design

Ideal for applications where 360° PIR coverage is preferred.

### Supervision

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

**Cover Tamper**

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

**Certifications and Approvals**

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

**Installation/Configuration Notes**

**Compatibility Information**

The ISW-EN1265 PIR Motion Sensor-Transmitter is 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

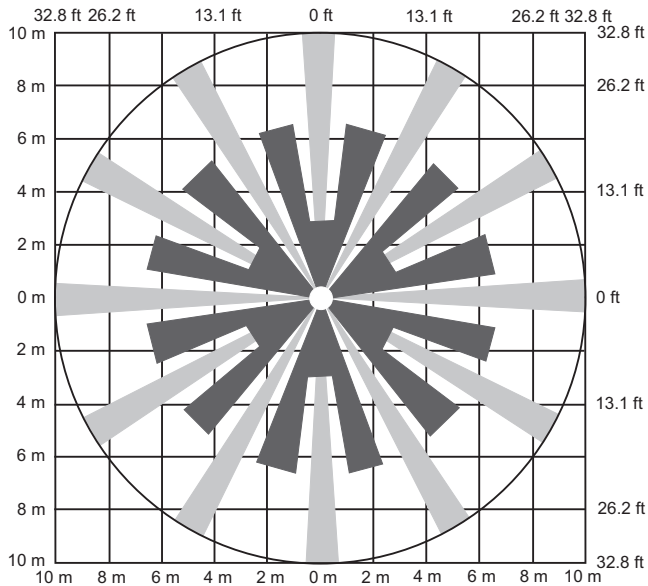
**Repeater**

ISW-EN5040-T High-power Repeater

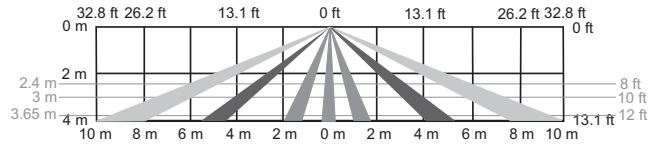
**Mounting Height and Coverage Patterns**

Mount the sensor-transmitter on ceilings no higher than 3.4 m (12 ft) with the standard lens. The optional lens (ISW-ACC669 High-ceiling Lens) allows mounting on ceilings as high as 7.6 m (25 ft). The coverage patterns for the standard lens and optional lens are as follows:

**ISW-EN1265 Standard Coverage**

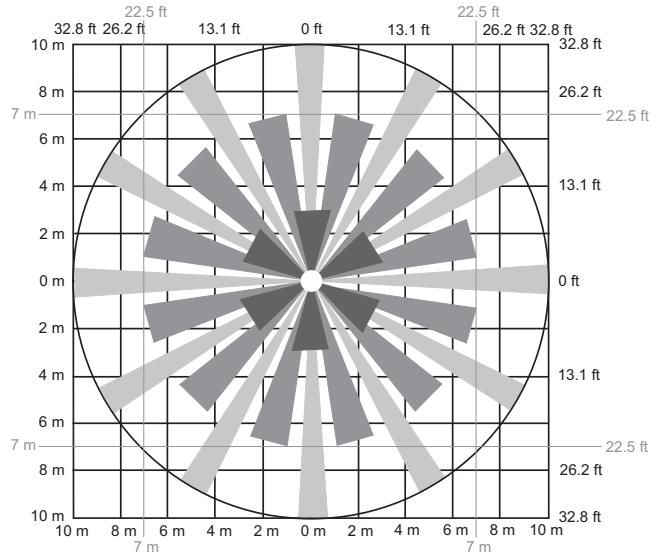


Top View: 20 m (65.6 ft) x 360°

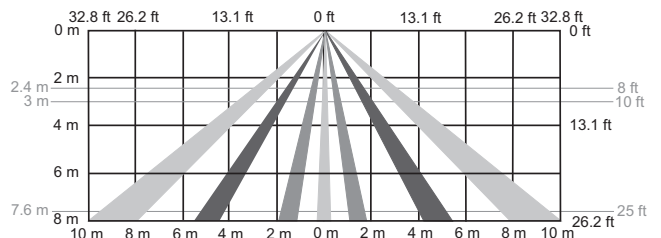


Side View: 4 m (13.1 ft) x 20 m (65.6 ft)

**ISW-ACC669 Long Range Coverage (optional)**



Top View: 20 m (65.6 ft) x 360°



Side View: 8 m (26.2 ft) x 20 m (65.6 ft)

**Parts Included**

Quantity	Component
1	Sensor-transmitter with cover tamper
1	3.0 V lithium battery

**Note** The ISW-EN1265 can accommodate two batteries for extra battery life, but only one battery is required for operation.

## Technical Specifications

### Electrical

Power:	3.0 V, 2.2 Ah
Battery Replacement:	Duracell DL123A, Panasonic CR123A, or approved equivalent. Not all brands are equivalent. Use the brands specified.
Battery Life (Average):	4 years. Typical battery life shown is for supervised operation using recommended check-in times. The battery life of a PIR sensor is highly dependent on traffic in its coverage area.
Sleep Time:	Fixed or variable - has a standard fixed sleep time of 180 sec; variable sleep time allows remaining in sleep mode longer to extend battery life in high-traffic environments.

### Environmental

Relative Humidity:	10% to 90%, non-condensing
Temperature (operating):	0°C to +49°C (+32°F to +120°F)

### Mechanical

Dimensions:	13.1 cm x 5.7 cm (5.2 in. x 2.5 in.)
Weight:	185 g (6.52 oz)

### 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-EN1265 PIR Motion Sensor-Transmitter (Ceiling-mount Applications)

**ISW-EN1265**

Provides 360° by 20 m (65.6 ft) coverage for large open spaces. Includes battery and attack-resistant cover.

### Accessories

#### Commercial Wireless ISW-ACC669 High-ceiling Lens

**ISW-ACC669**

Optional lens that allows mounting the ISW-EN1265 on ceilings as high as 7.6 m (25 ft)

**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**