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Commercial Wireless ISW-EN1261HT PIR Motion Sensor-Transmitter (High-traffic Areas)

- **15.2 m x 15.2 m(50 ft x 50 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**
- **Includes cover tamper and optional wall tamper**
- **Pet immunity**
- **Exclusive wireless protocol ensures maximum performance and reliability**

The ISW EN1261HT PIR Motion Sensor Transmitter is appropriate for commercial and high-end domestic applications, providing the most cost-effective solution for reducing installation expenses. The rounded cover blends into the environment and is suitable for different installation design needs. It also offers a variable sleep time to extend the battery life in high-traffic applications. It is equipped with an integrated sensor to meet the needs of every indoor installation. Advanced signal processing recognizes human signature size and movement, reducing false alarms. Advanced microprocessor technology provides excellent catch performance.

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

Battery Sleep Time

Designed specifically for wireless applications, this PIR has a maximum sleep time of 180 sec recommended for most installations. The sleep time can be set to 15 sec or 30 sec for six activations before returning to its 180 sec sleep time. Setting the shorter sleep times can shorten battery life.

Supervision

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

Wall and Cover Tampers

The optional wall tamper switch provides increased security and is ideal for high end residential applications. The wall tamper switch notifies the system when the transmitter is removed from its mounted surface. The cover tamper switch notifies the system when an intruder attempts to remove the sensor cover.

Pet Immunity

It is immune to pets up to 15 kg (33 lb) in weight and 30.5 cm (12 in.) in height.

Certifications and Approvals

Inovonics Wireless Corporation holds the following approvals:

FCC	Conforms to FCC Part 15 regulations

Installation/Configuration Notes

Compatibility Information

The ISW-EN1261HT 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

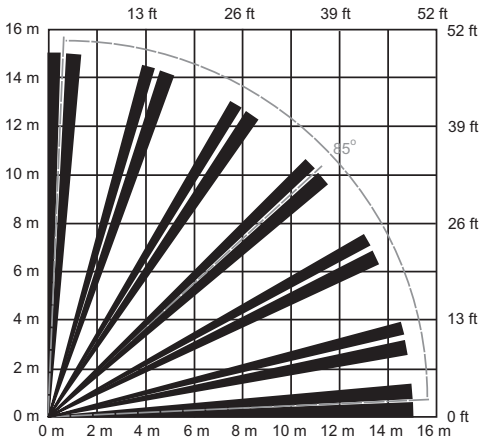
Mounting Height and Coverage Patterns

Mount the sensor- transmitter at a height between 2.1 m and 2.7 m (7 ft to 9 ft).

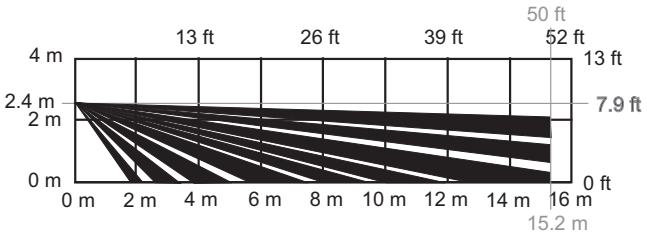
Note Use of the optional ISW-ACC665 Swivel Bracket can reduce detector range, increase dead zone areas, and reduce pet immunity.

The coverage patterns for the standard lens and optional lens are as follows:

ISW-EN1261HT Standard Coverage

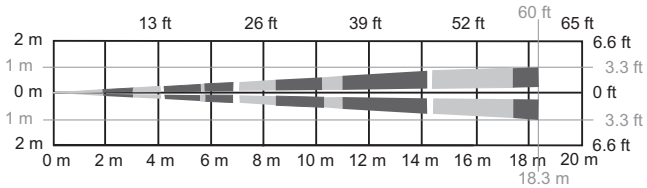


Top View: 15.2 m x 15.2 m (50 ft x 50 ft)

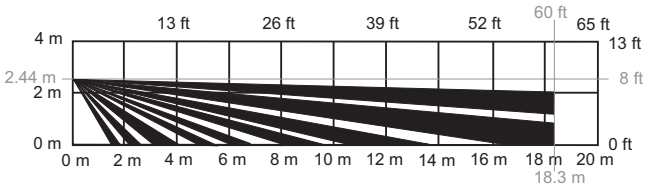


Side View: 2.4 m x 15.2 m (7.9 ft x 50 ft)

ISW-ACC6668 Long Range Coverage (optional)



Top View: 2 m x 18.3 m (6.6 ft x 60 ft)



Side View: 2.4 m x 18.3 m (8 ft x 60 ft)

Parts Included

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

Technical Specifications

Electrical

Power:	3.0 V, 2.2 Ah
Battery Replacement:	ISW-BAT610 High-traffic PIR Replacement Battery
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:	Variable - has a maximum sleep time of 180 sec; choosing lower sleep times can shorten battery life.

Environmental

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

Mechanical

Dimensions:	11.4 cm x 6.4 cm x 4.1 cm (4.5 in. x 2.5 in. x 1.6 in.)

Transmission Characteristics

Frequency:	902 MHz to 928 MHz
Radio Frequency Interference (RFI) Immunity:	Greater than 30 V/m for frequencies between 26 MHz and 1 GHz.

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Ordering Information

Commercial Wireless ISW-EN1261HT PIR Motion Sensor-Transmitter (High-traffic Areas) Provides 15.2 m x 15.2 m (50 ft x 50 ft) coverage. Includes cover and wall tampers and battery.	**ISW-EN1261HT**
Accessories	
Commercial Wireless ISW-ACC668 Long-range Lens Optional long-range lens (20 m [60 ft]) for the ISW-EN1261HT	**ISW-ACC668**
Commercial Wireless ISW-ACC665 Swivel Bracket Wall-mount, ceiling-mount swivel bracket for the ISW- EN1261HT	**ISW-ACC665**
Commercial Wireless ISW-ACC667 White-light Filter White-light filter used with the ISW-EN1261HT	**ISW-ACC667**
Commercial Wireless ISW-BAT610 3 V High-capacityBattery Replacement battery for the ISW-EN1261HT	**ISW-BAT610**

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