

# WCMS

## Wireless Ceiling Mount Passive Infrared (PIR) and Photo Sensors



The Encelium **WCMS (Wireless Ceiling Mount Sensors)** consists of Passive Infrared (PIR) and Photo Sensors which collect occupancy and daylight information from a lighted space and communicate collected data to the Encelium X Lighting Control System over a wireless mesh network.

These Wireless PIR/Photo Sensors have been recognized as some of the smallest in the industry. Powered by 2 AA batteries with an extended battery life of 10 years, these sensors are intended to be installed onto a ceiling surface or electrical box.

Three configurations are available: up to 42 sq m (450 sq ft) range, up to 140 sq m (1,500 sq ft) range, or a high-bay option that covers up to 260 sq m (2,800 sq ft) with a mounting height of up to 12 m (40 ft). These sensors feature tool-less mounting options for easy installation and offer masking options to maximize control flexibility.

Date: \_\_\_\_\_

Quantity: \_\_\_\_\_

Company: \_\_\_\_\_

Project: \_\_\_\_\_

### Works with

- Encelium X
- ▶ Wireless



### Key Features & Benefits

- Available in three coverage options — 42 sq m (450 sq ft), 140 sq m (1,500 sq ft), and high-bay option
- Simple installation, using magnetic mounting and 360° directional flexibility
- Reposition sensor with no noticeable substrate marks
- Setup and configuration via Polaris™ software
- Wireless sensor offer 10-year battery life with automatic battery monitoring via Polaris software

## Specifications

### SENSING AND CONTROL

#### Sensing

- Passive Infrared (PIR) Sensor
- Photo Sensor

#### Light Sensor Operating Range

- 0 to 1,000 Lux
- Shields included (no opening of sensor required)

#### Control

- Wireless Communication

#### Batteries

- 2-AA Alkaline batteries (provided)
- Exchangeable and readily accessible

### ELECTRICAL

#### Radio Frequency

- 2.4 GHz

### ENVIRONMENTAL

#### Operating Temperature

- Standard Range (SR) and Extended Range (ER) Sensors  
0° to 40°C (32° to 104°F)
- High-Bay (HB) Sensor  
0° to 60°C (32° to 140°F)

#### Relative Humidity

- 0% to 95% non-condensing, for indoor use only

### PHYSICAL

#### Base Diameter

- 85.5 mm (3.37 inches)

#### Height

- 28.6 mm (1.13 inches) — SR Sensor
- 26.2 mm (1.03 inches) — ER and HB Sensors

#### Weight

- 110 g (3.9 oz)

#### Housing Color

- Matte White

#### Housing Material

- UV Stabilized Plastic

#### Mounting Options

- Magnetic Mount
- Surface Mount
- Ceiling Tile Mount (requires optional mounting accessory kit)
- Junction Box Mount (requires optional mounting accessory kit)
- High-Bay Mount (requires optional mounting accessory kit)

#### Mounting Height

- 2.4 to 3.7 m (8 to 12 ft) — SR and ER Sensors
- Up to 12 m (40 ft) — HB Sensor

### WARRANTY

- For warranty details, refer to the full warranty documentation at [encelium.com](http://encelium.com)

### CERTIFICATIONS & SAFETY

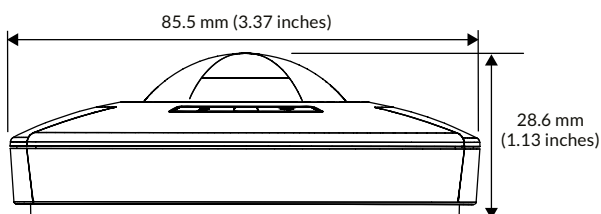
#### Approbations

- cUL Listed (UL 916)
- CE
- FCC Part 15/ICES-003
- RoHS Compliant
- Meets ASHRAE Standard 90.1 and CEC Title 24 requirements

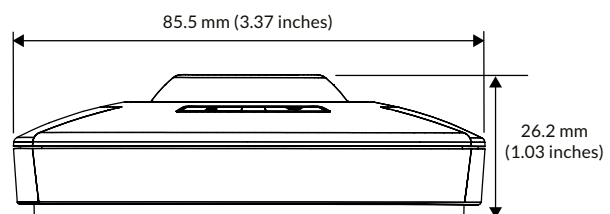


## Dimensions

Standard Range Sensor



Extended Range Sensor  
High-Bay Sensor



## Ordering Information

Ordering Code	Description	Approbations	Sensing Technologies	Coverage	Sensing Angle
45571	Wireless Ceiling Mount Sensor	UL and CE	PIR/Photo	42 m <sup>2</sup> (450 ft <sup>2</sup> )*	360°
45570	Wireless Ceiling Mount Sensor	UL and CE	PIR/Photo	140 m <sup>2</sup> (1,500 ft <sup>2</sup> )*	360°
56302	Wireless Ceiling Mount Sensor	UL and CE	PIR/Photo	See Notes**	360°
45584	Mounting Accessory Kit	UL and CE	—	—	—

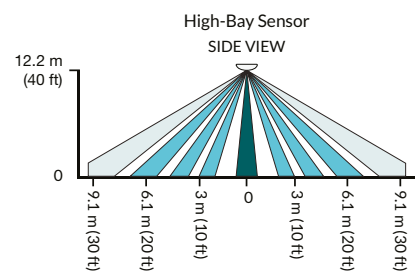
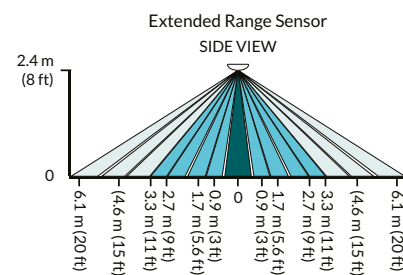
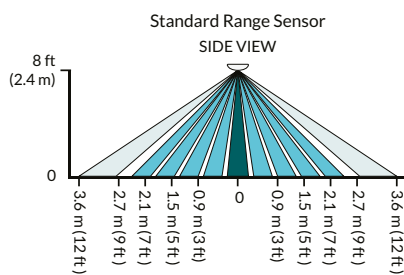
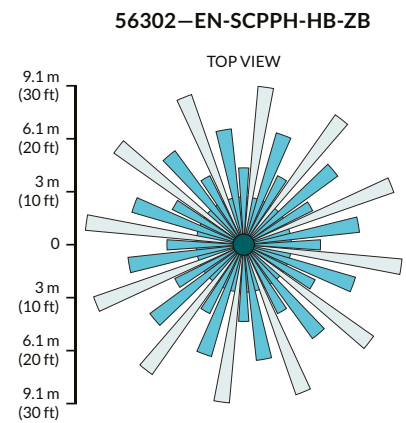
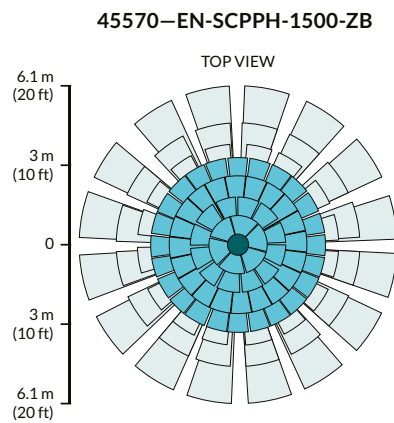
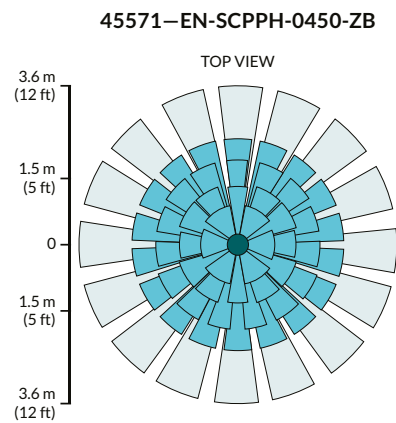
\* Mounting Height: 8 to 12 ft (2.4 to 3.7 m)

\*\* Dependent on mounting height

## Sensor Mounting Height

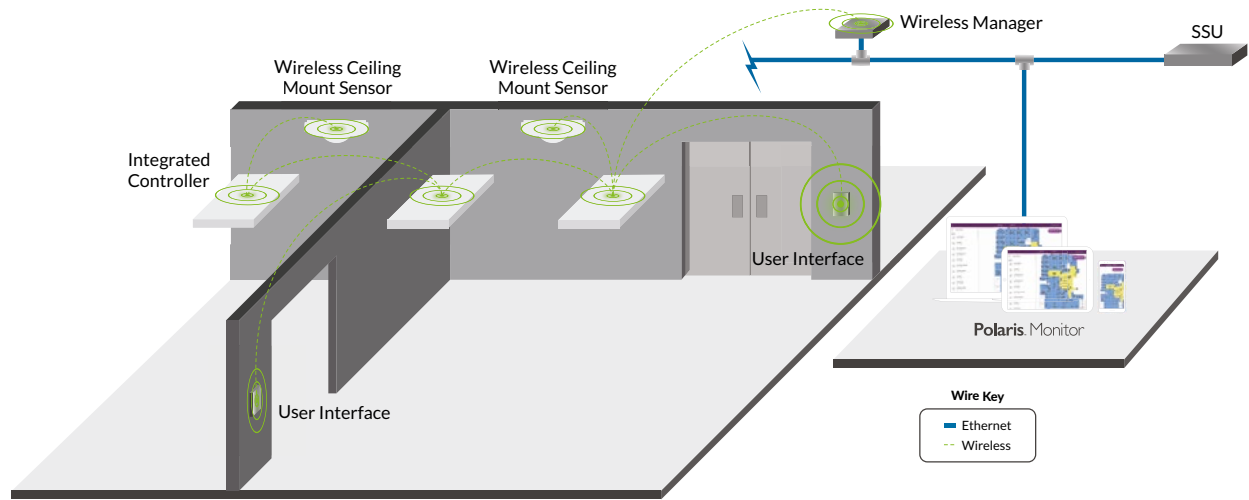
Mounting Height	Coverage
6 m (20 ft)	~ 102 m <sup>2</sup> (1,100 ft <sup>2</sup> )
9 m (30 ft)	~ 167 m <sup>2</sup> (1,800 ft <sup>2</sup> )
12 m (40 ft)	~ 260 m <sup>2</sup> (2,800 ft <sup>2</sup> )

## Sensor Coverage



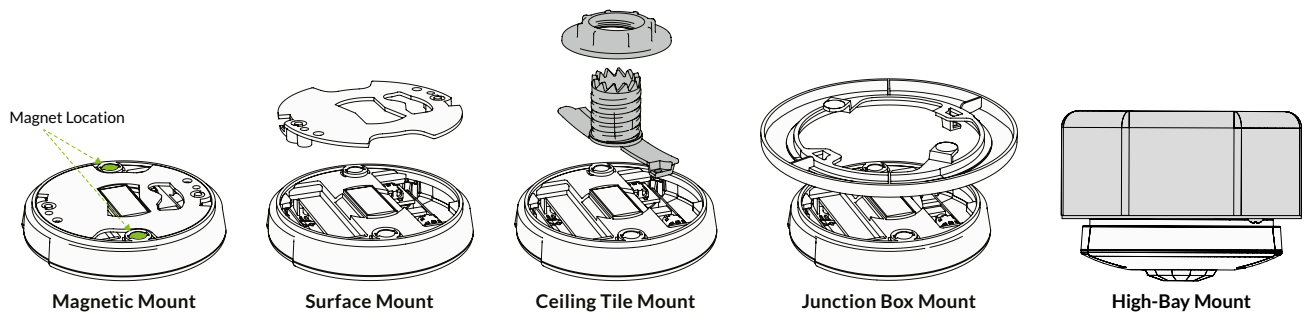
## Wireless System Overview

This illustration shows how each component is easily integrated into the Encelium X Lighting Control System.



## Mounting Options

Ceiling Tile Mount, Junction Box Mount, and High-Bay Mount requires optional mounting kit (sold separately).



**BUILDING CONTROL SYSTEMS**  
 2240 Campbell Creek Blvd. #110  
 Richardson, Texas 75082 USA  
 Tel: 888.531.7573  
 www.encelium.com

© 2023 Legrand. All Rights Reserved 05.2023

**ENCELIUM**