

# Low-Voltage Sensors

## Low-Voltage Occupancy and Daylight Sensors

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

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

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

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



Encelium single-technology Passive Infra-Red (PIR) sensors are a cost-effective option for small and large spaces when major motion is available. The multi-technology option adds an active Ultrasonic (U/S) sensor to the PIR sensor to increase minor motion sensitivity in critical applications like single-occupant offices and restrooms between 450 – 2,000 sq ft (42 – 186 sq m).

Designed with easy ceiling mounting with low-voltage connection and a twist-lock attachment for 360° directional flexibility. Includes installer test mode with 6 seconds auto exit programming.

### Key Features & Benefits

- Coverage option –  
450 – 2,000 sq ft (42 – 186 sq m)
- Adaptive Learning with Local Protected Memory – Sensor self-calibrates to optimize performance and retains settings during power interruptions
- Avoid wasting energy when there is enough natural light with the integrated Daylight Hold-OFF Light Sensor
- Auto-Adapting Mode – Sensor’s digital system continually analyzes and adjusts the sensitivity and time delay
- Walk-Through Mode – Provides increased energy savings by decreasing the time delay to 2.5 minutes when someone momentarily walks through the monitored space
- Works with:
  - Encelium X
  - Encelium Extend

## Specifications

### SENSING AND CONTROL

#### Control

- 0% – 100%; green knob – U/S Sensivity<sup>1</sup>
- 0% – 100%; red knob – PIR Sensitivity
- 30 seconds – 30 minutes; black knob – Time Delay<sup>2</sup>

#### LED Indicator

- Green LED – Motion detected with U/S sensor<sup>1</sup>
- Red LED – Motion detected with PIR sensor

#### Configuration

- Any number of sensors can be mapped to any number of zones
- Timeout settings fully configurable

### ENVIRONMENTAL

#### Operating Temperature

- 32° – 104°F (0° – 40°C)

#### Relative Humidity

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

### PHYSICAL

#### Base Diameter

- 4.2 inch (107 mm)

#### Height

- 1.57 inch (40 mm)

#### Weight

- 5 oz (142 g)

#### Color

- White

#### Wire Length

- 6 inch (160 mm)

#### Housing

- Rugged, high-impact, UV inhibitors

#### Mounting Height

- 8 – 12 ft (2.4 – 3.7 m) – Ceiling Mount Sensor
- 10 – 40 ft (3 – 12.2 m) – High Bay Sensor

### WARRANTY

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

### CERTIFICATIONS & SAFETY

#### Approbations

- cUL Certified
- FCC Part 15/ICES-003
- Meets ASHRAE Standard 90.1 and CEC Title 24 requirements



## Ordering Information

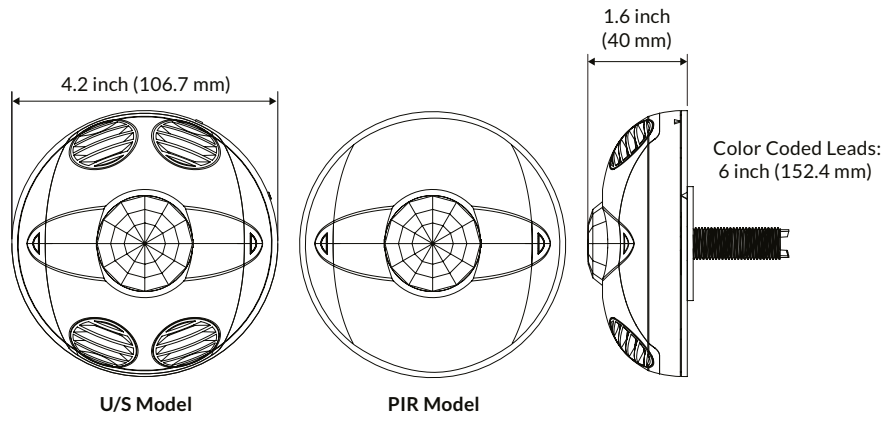
Item Number	Ordering Code	Description	Sensing Technologies	Coverage	Motion Ranges	Sensing Angle	Sensing Current
1OSC04.I0W	SCP-0450	Low-Voltage Sensor	PIR	450 ft <sup>2</sup> (42 m <sup>2</sup> )	–	360°	20 mA
1OSC15.I0W	SCP-1500	Low-Voltage Sensor	PIR	1,500 ft <sup>2</sup> (140 m <sup>2</sup> )	–	360°	20 mA
1OSC05.M0W	SCM-0500	Low-Voltage Sensor	PIR & U/S	500 ft <sup>2</sup> (47 m <sup>2</sup> )	–	180°	25 mA
1OSC10.M0W	SCM-1000	Low-Voltage Sensor	PIR & U/S	1,000 ft <sup>2</sup> (93 m <sup>2</sup> )	–	360°	35 mA
1OSC20.M0W	SCM-2000	Low-Voltage Sensor	PIR & U/S	2,000 ft <sup>2</sup> (186 m <sup>2</sup> )	–	360°	30 mA
1OSWLR.I0W	SWP-LRNG	Extended Range Sensor	PIR	100 x 33 ft <sup>2</sup> (31 x 10 m <sup>2</sup> )	100 ft (31 m)	26°	15 mA
1OSWHB.I0W	SWP-HBAY	High Bay Sensor	PIR	55 x 7 ft <sup>2</sup> (17 x 2 m <sup>2</sup> )	55 ft (17 m)	73°	15 mA

Footnotes:

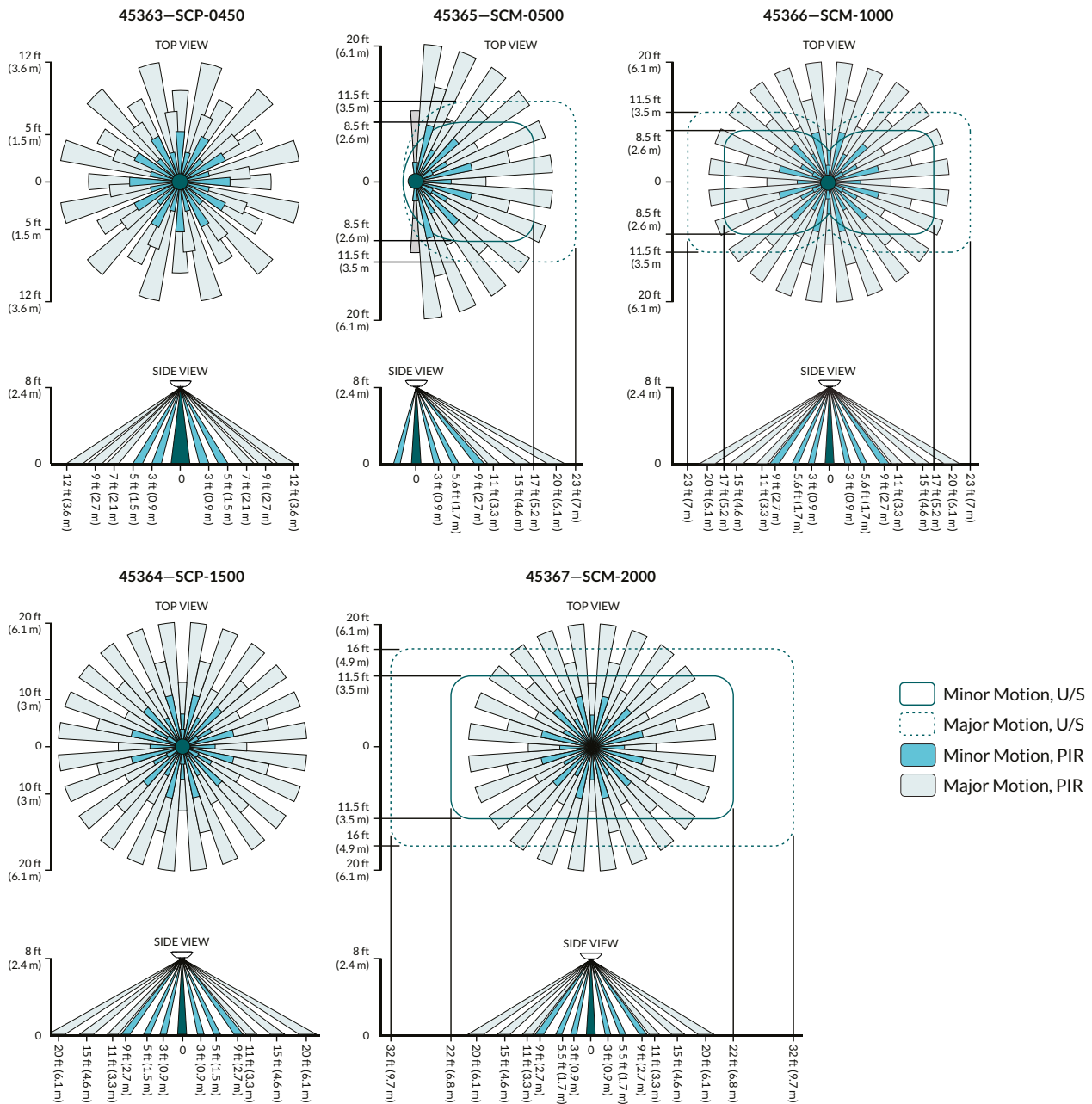
<sup>1</sup> U/S models only.

<sup>2</sup> Factory setting – 10 minutes.

# Dimensions

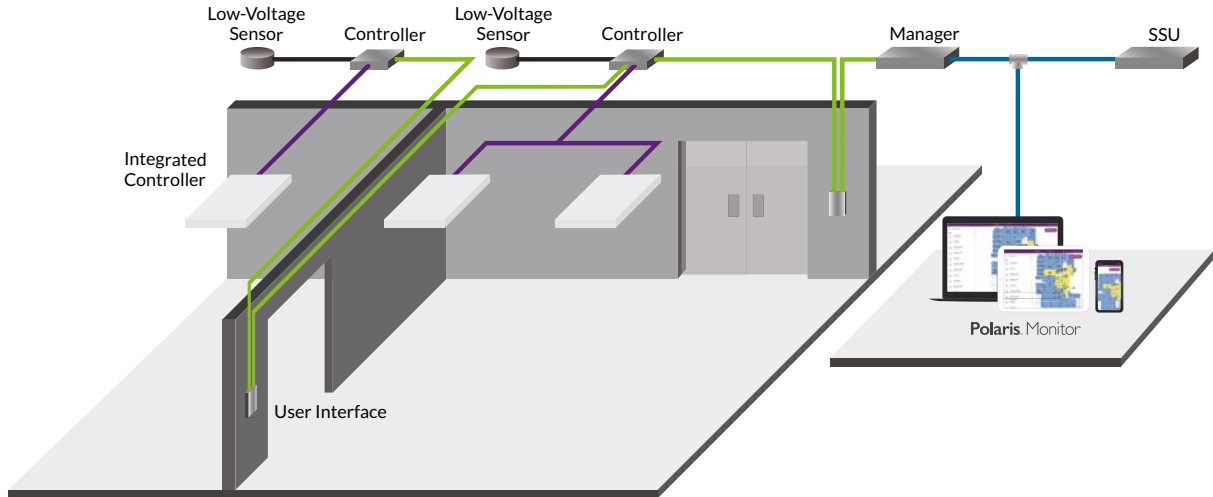


# Field-of-View



## Wired System Overview

GreenBus technology makes wiring fast and error-free, since it's intuitive to install. With Encelium X, you can control DALI devices exclusively or a mixture of GreenBus and DALI. With any Encelium wired design, you get a reliable, on-site light management system that can be installed quickly and easily.



## Wireless System Overview

This illustration shows how each component is easily integrated into the Encelium X Networked Light Management System.

