

GBS

GreenBus Sensor Family



The GreenBus™ family of ceiling/surface mount sensors provides a range of networked sensor solutions for applications with finished ceilings (e.g. ceiling tiles, sheetrock, plaster). They combine passive infrared (PIR) and photocell sensing in a single compact form factor.

The GreenBus family of sensors is available with several lens options, providing flexibility for multiple mounting heights and coverage pattern requirements.

This sensor family easily connects to the Encelium X Light Management System through a GreenBus cable with standard 2-pin connectors, and feature tool-less mounting options for easy installation, and provides masking options to maximize control flexibility.

Date: _____

Quantity: _____

Company: _____

Project: _____

Key Features & Benefits

- Available in three coverage options – 450 sq ft (42 sq m), 1,500 sq ft (140 sq m), and high-bay option
- Multiple mounting options available including magnetic mount on T-bar
- Enables contractors to quickly test wired installations
- Use in wireless installations for a battery-less solution
- Works with:
 - Encelium X

Specifications

SENSING AND CONTROL

Light Sensor

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

Software

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

ELECTRICAL

Power Supply Operating Voltage

- 12-24V from GreenBus bus

ENVIRONMENTAL

Operating Temperature

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

Relative Humidity

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

PHYSICAL

Base Diameter

- 3.37 inch (85.49 mm)

Height

- 1.13 inch (28.6 mm) – SR sensor
- 1.03 inch (26.2 mm) – ER and HB sensors

Weight

- 2.86 lbs (81 g)

Color

- Matte White

Housing

- UV stabilized plastic

Mounting Height

- 8 – 10 ft (2.4 – 3.7 m) for SR and ER sensors
- Up to 40 ft (12 m) – HB Sensor
- Additional mounting accessory kit provided in product packaging

WARRANTY

- For warranty details, refer to the full warranty documentation at www.encelium.com

CERTIFICATIONS & SAFETY

Approbations

- cUL Listed (UL 916)
- 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	Sensing Angle
56355	EN-SCPPH-0450-GB2	GreenBus Sensor	PIR/Photo	450 ft ² (42 m ²)*	360°
56356	EN-SCPPH-1500-GB2	GreenBus Sensor	PIR/Photo	1,500 ft ² (140 m ²)*	360°
56357	EN-SCPPH-HB-GB2	GreenBus Sensor	PIR/Photo	See Notes**	360°

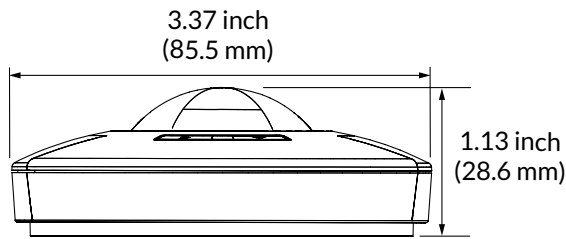
* Mounting Height: 8 – 12 ft (2.4 – 3.7 m)

** Dependent on mounting height

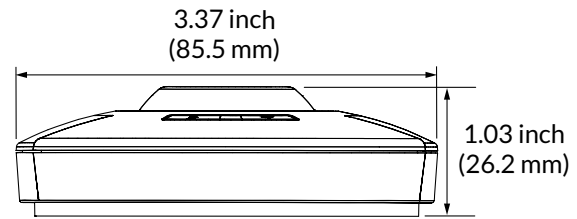
Mounting Height	Coverage
20 ft (6 m)	~1,100 ft ² (102 m ²)
30 ft (9 m)	~1,800 ft ² (167 m ²)
40 ft (12 m)	~2,800 ft ² (260 m ²)

Dimensions

Standard Range Sensor

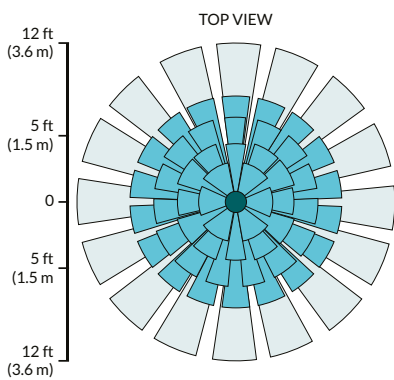


Extended Range Sensor
High Bay Sensor

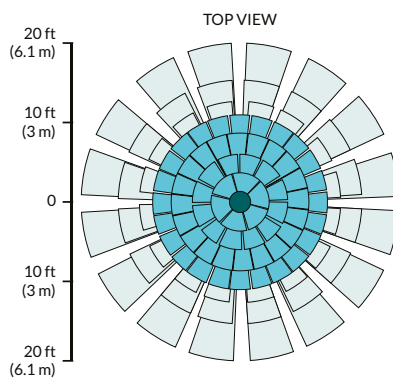


Field-of-View

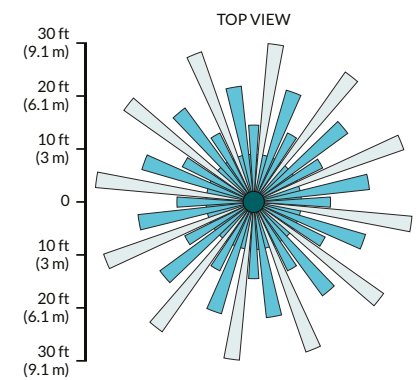
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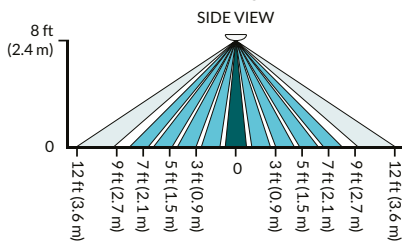
56356-EN-SCPPH-1500-GB2



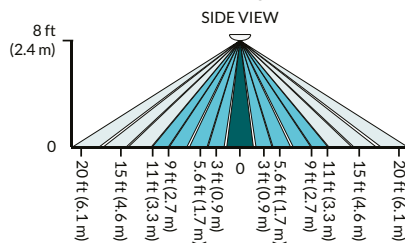
56357-EN-SCPPH-HB-GB2



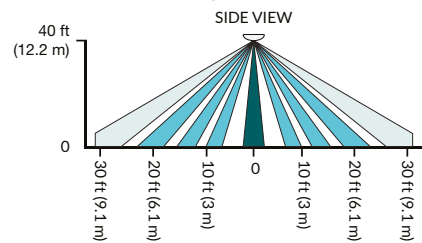
Standard Range Sensor



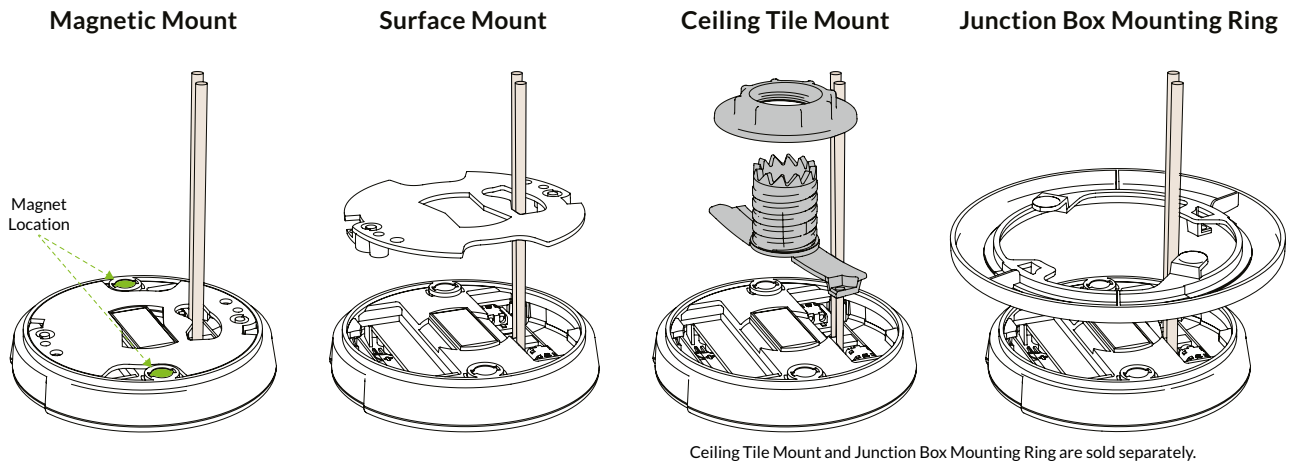
Extended Range Sensor



High Bay Sensor

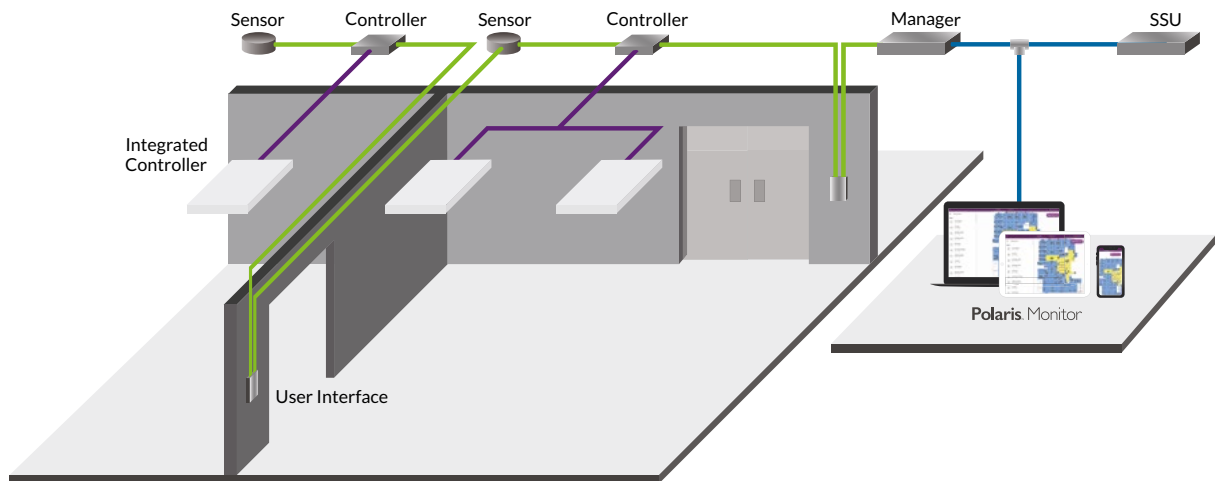


Mounting Options



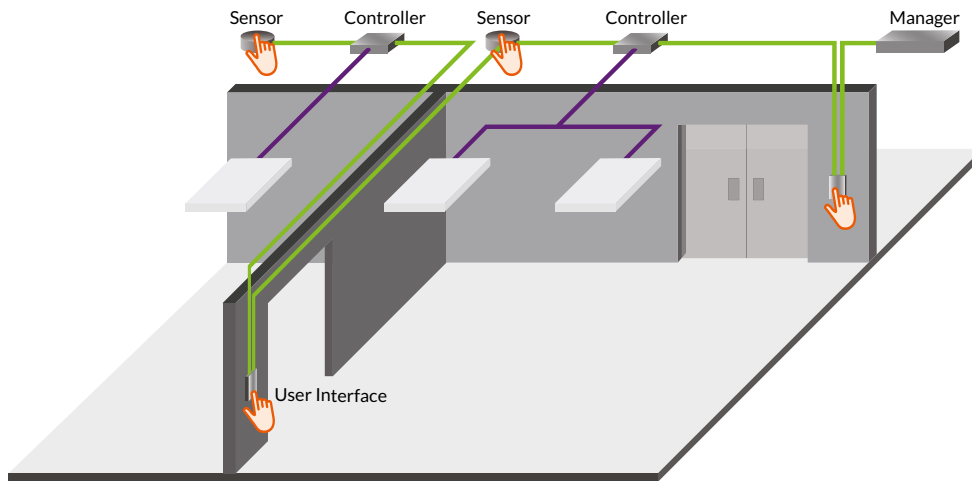
Wired System Overview

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.



Installation Testing

Installer can quickly test if the devices have been wired correctly by pressing any button on the wallstation or the sensor which triggers all the load controllers on the channel to change the dimming level by 25%. Every press will trigger this function to enable testing of the AC line wiring, dimming wiring, and communication integrity over the GreenBus lines.



Manual Pairing

Installers can easily pair devices in a room or a zone to gain manual control (on, off and dimming) and occupancy time outs. Holding any buttons on a wallstation or sensor for 10 seconds enters the system in the Manual Pairing mode. The system then guides the user by blinking the load controllers on the GreenBus wiring scheme as a means of identifying and pairing them to the wallstation or sensor.

