







EasySense for networks is based on zigbee technology for use in wireless systems for indoor connected lighting. It provides a simple solution to actively manage and control energy usage, while remotely adjusting light settings and determining service needs. With the added zigbee functionality, EasySense can now be an integral part of networks also based on the zigbee standard. A program is under development by Philips to qualify third-party network systems for use with EasySense SNS300.

EasySense is renowned for its compact size and ability to easily integrate into luminaires. In addition, the sensors are compatible with Philips Advance Xitanium SR LED drivers, eliminating the need for auxiliary devices and alleviating time-consuming configuration issues. The simple two-wire connection from driver to sensor reduces design-in complexity and eliminates additional components that add to overall costs. Now SNS300 can provide fixture-specific information into networks for centralized control and enable functionality such as energy monitoring, scheduling and load shedding.

Commercial Product Name	Order Code
EasySense Fixture-Mount Sensor	SNS300

Features

- Compatible with qualified gateway and network partners
- Occupancy and daylight sensing in one device
- · Compact size, 2-wire connection
- Operates with Philips Advance Xitanium SR LED drivers to control light levels and report energy data

Benefits

- Choice of network systems to suit the application
- Combines functionality to reduce need for multiple components
- Cost-effective solution for energy-savings and code-compliancy strategies
- 5-year limited system warranty with Philips Advance Xitanium LED drivers¹

Applications

- · Conference rooms
- · Individual offices
- · Open offices
- · Classrooms
- · Storage and break areas
- · Restrooms
- Lobbies
- Stairways

Product Data

All specifications are typical and at 25°C Tcase unless otherwise specified.

SNS300		
EasySense Fixture-Mount Sensor		
50 pcs/carton		
1.97in x 0.75in x 1.24in / 50mm x 19.0mm x 31.5mm		
1.73in x 0.67in / 44mm x 17mm (l x w)		
0.6oz / 17gr		
1.87in x 0.75in x 0.95in / 50mm x 19mm x 24mm		
White		
(2) Lite-trap connectors rated for AWG24 to AWG18 solid conductor wire (AWG22-AWG20 for stranded wire)		
·		
Powered by SR driver low-voltage interface		
13mA		
200mW		
<1W on luminaire level, including driver standby power		
Passive infrared (PIR)		
Determined by network settings, no stand-alone operation		

Continued on next page.

Product Data (continued)

All specifications are typical and at 25°C Tcase unless otherwise specified.

Daylight Sensing			
Behavior	Determined by network settings, no stand-alone operation		
Viewing Angle	40° (half value sensitivity); 2% cut-off point at 75°		
Environment & Approbation			
Operating Ambient Temperature Range	0°C to 55°C		
Operating Humidity	0 – 95% non-condensing		
Storage Temperature	-25°C to 85°C		
Storage Humidity	0-95% non-condensing		
Max. Case Temperature (Tcase)	55°C		
Agency Approbations	UL, CSA; Tested and approved for use in plenums; FCC ID: 2AF2N-SNS100; IC: 20659-SNS100		
Certification	California Title 20		
Warranty	5 years		
Digital Interface	Xitanium SR		
Other			
Wireless Protocol	Zigbee, IEEE 802.15.4		
Encryption	AES-128		
LED Status Indicators	Red, Yellow. Yellow LED on: Vacancy & Sensor is functional; Red LED on: Occupancy detected		
No. Drivers per Sensor	4 maximum		
Max. Distance Fixture-to-Fixture	40ft line-of-sight		
Field Configuration	Via qualified third-party network system application		

Compatible LED Drivers

 $Refer to \ www.philips.com/x it an iumsr/na \ for \ a \ complete \ list \ of \ SR \ drivers \ and \ SR \ bridges \ for \ use \ with \ Easy Sense.$

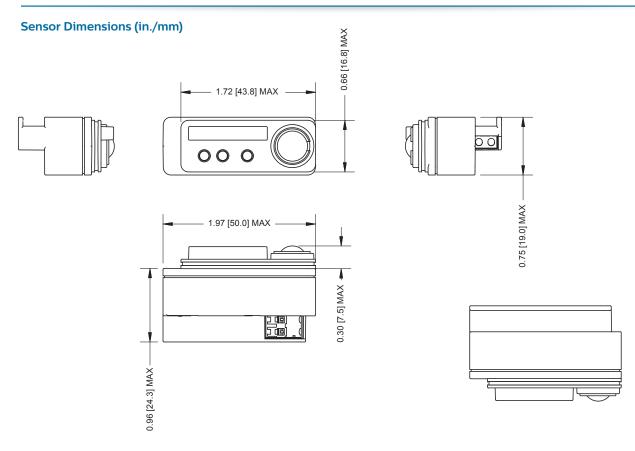
Compatible Systems (Gateway/Network Partners)

Philips works with third-party companies to qualify their systems for use with EasySense SNS300.

Manufacturer	Product Name
TBA	TBA

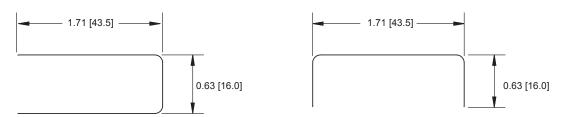
Compatible Wireless Switches

Only for use with qualified wireless switches from qualified gateway and network partners.

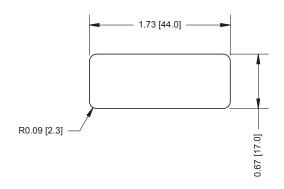


Mounting Dimensions (in./mm)

 $Mounting in U-shaped slot in sheet metal (maximum thickness 1\,mm), tolerance + 0.2mm/-0.0mm$



Mounting in cut-out in sheet matal (thickness 0.7 mm to 1.2 mm), tolerance +/-0.2 mm



Accessory Mounting Ring

Part Number SMR-50 / Set of 50

- (1) SMR-50 includes a set of (50) mounting rings
- Ordered separately, not included with EasySense
- Dimensions: 53mm x 26mm x 1.5mm



Accessory Mounting Bracket

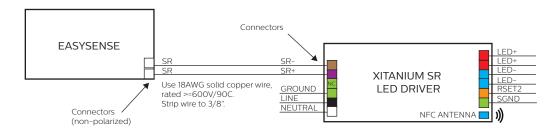
Part Number SMB-50 / Set of 50

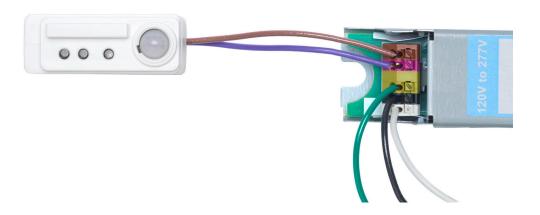
- (1) SMB-50 includes (50) mounting brackets
- Ordered separately, not included with EasySense
- Dimensions: 64.1mm x 25.3mm x 10.3mm



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Wiring Diagram



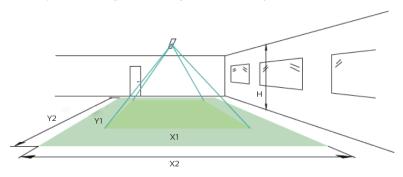


Occupancy Sensing

Note: EasySense SNS300 does not provide stand-alone operation based on occupancy. Status is provided to the network system for centralized control and command.

The detection area for the movement sensor can be roughly divided into two parts:

- Minor movement (person moving ≤ 3.0'/s or 0.9m/s).
- Major movement (person moving ≥ 3.0'/s or 0.9m/s).







Height	Minor Movement		Major Movement	
Н	Y1	X1	Y2	X2
8'/2.4m	10'/2.9m	9′/2.7m	15'/4.5m	9′/2.9m
10'/3m	12'/3.6m	11'/3.4m	18'/5.4m	12'/3.6m

Note: Longer dimension of detection area (Y1, Y2) is parallel to longer dimension of EasySense.

Daylight Sensor

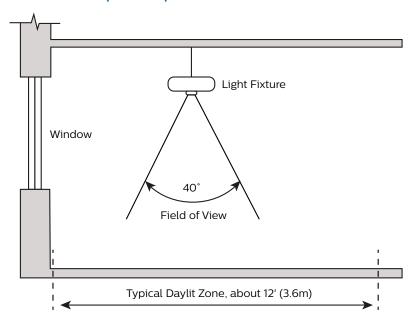
Note: EasySense SNS300 does not provide stand-alone operation based on daylight. Status is provided to the network system for centralized control and command.

The light sensor measures the total amount of light in a circular field of \approx 80% of the PIR detection area. The following aspects should be observed during installation:

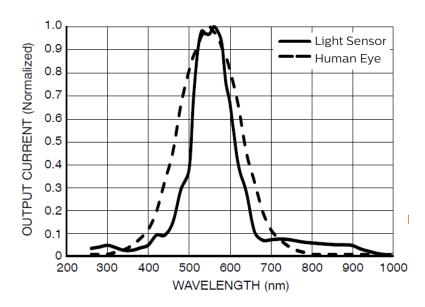
- Minimum distance from the window ≥ 2.0′/0.6m.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

As a guideline the formula 0.72 x H can be used to calculate the minimum distance between the window and sensor whereby H is the height from the bottom of the window to the ceiling.

Photosensor Spatial Response



Photosensor Spectral Response



Ceiling-Mount Option

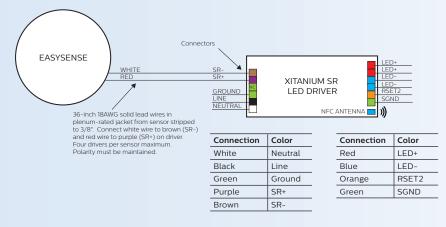


Sensor Part Number

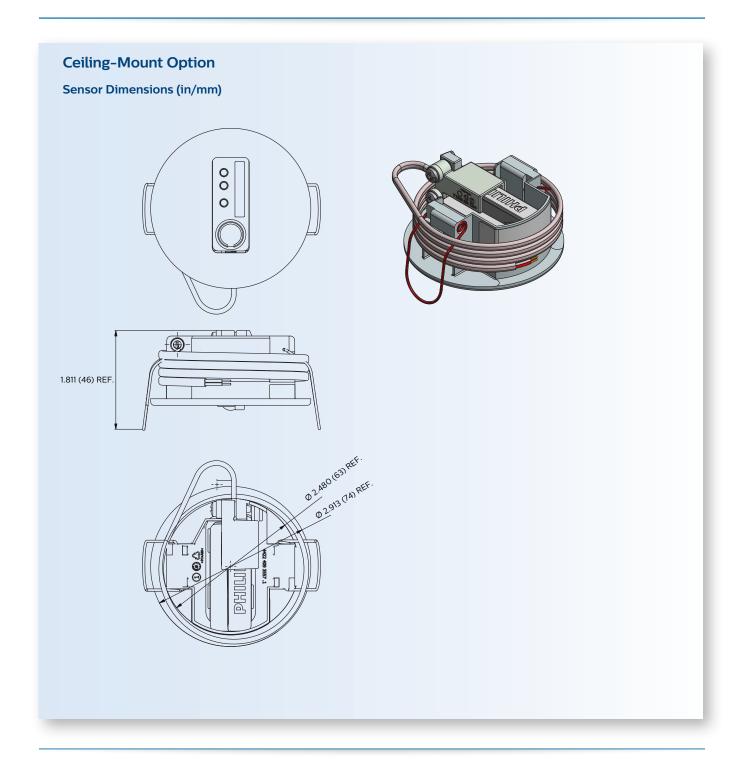
Order Code	SNS300CMP (517839)
Full Product Name	EasySense Ceiling-Mount Sensor
Carton Quantity	1 pc/carton
Assembly	Includes sensor pre-assembled in ceiling mounting plate with leads ready for field installation
Net Weight per Piece	2.6oz / 75gr
Color	White
No. Drivers per Sensor	Four drivers per sensor maximum; polarity must be maintained

Note: For use in non-fire-rated installations only.

Wiring Diagram



Note: Refer to www.philips.com/easysense for quick installation guide.



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