





The Philips EasySense fixture–mount sensor is the ideal solution for per-fixture, stand–alone control of new light fixtures. It combines occupancy sensing, daylight harvesting and task tuning in a single, compact package for easy OEM fixture assembly. EasySense operates with the established Xitanium SR driver standard to make a simple two–wire connection between sensor and driver, thus eliminating the need for multiple components and auxiliary devices. The result is a cost effective and easy-to-design-in solution ideal for energy-savings and code–compliance strategies. An intuitive app makes configuration during installation fast and easy using SimpleSet.

Commercial Product Name	Order Code
EasySense Fixture-Mount Sensor	SNS100

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Compact size
- Operates in conjunction with Philips Xitanium SR drivers
- Preset with most common parameters to work right out-of-the-box with no commissioning
- Configuration if desired using SimpleSet (NFC) via intuitive smartphone-based app

Benefits

- Combines functionality to reduce need for multiple components
- · Fits into existing and new-design fixtures
- \cdot Easy field configuration of control parameter
- Quick institutional tuning in the field to optimize light and power levels
- · Compatible with Philips Xitanium SR drivers
- 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

Product Data

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

Ordering Information			
Order Code	SNS100		
Full Product Name	EasySense Fixture-Mount Sensor		
Carton Quantity	50 pcs/carton		
Physical Information			
Overall Dimensions	1.97in x 0.75in x 1.24in / 50mm x 19.0mm x 31.5mm		
Housing (Luminaire Hole)	1.73in x 0.67in / 44mm x 17mm (l x w)		
Net Weight per Piece	0.6oz / 17gr		
Volume required Inside Luminaire (LxWxH)	1.87in x 0.75in x 0.95in / 50mm x 19mm x 24mm		
Color	White		
Connectors	(2) Lite-Trap connectors rated for AWG24 to AWG18 solid conductor wire (AWG22-AWG20 for stranded wire)		
Electrical Information			
Input Voltage	Powered by SR driver low-voltage interface		
Current Consumption	13mA		
Nominal Power Consumption	200mW		
Standby Power	<1W on luminaire level, including driver standby power		
Occupancy Sensing			
Туре	Passive infrared (PIR)		
Enable/Disable	Default enabled		
Detection	Off/Auto-on; Red LED indicates "on"		
Hold Time	1 - 120 minutes		
Viewing Angle	X=72°, Y = 86° (See detection pattern)		
Background Light Level	Off or 5-100%		
Prolong Time	0 minutes - infinity		
Grace Fading	0-25 sec		
Response Time/Fading to Switch On/Off	0.7Sec		

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1. View limited warranty at http://www.usa.lighting.philips.com/support/support/warranty.

Product Data (continued)

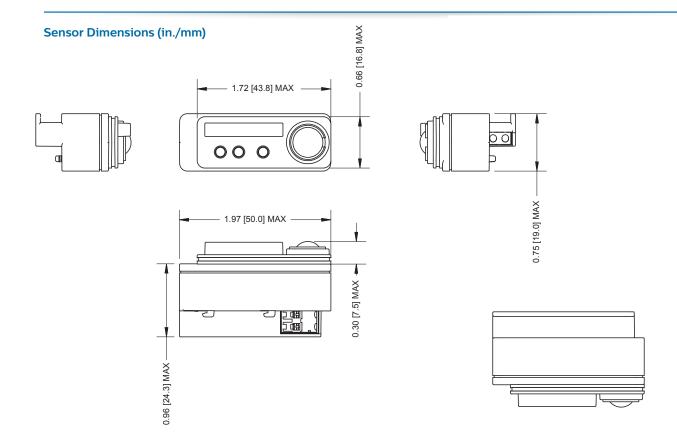
All specifications are typical and at 25°C Tcase unless otherwise specified.

Daylight Sensing		
Enable/Disable	Default enabled	
Auto-calibration	Upon power-up	
Viewing Angle	40° (half value sensitivity); 2% cut-off point at 75°	
Task Tuning		
Full Light Setting	5-100%	
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		
Status Indicators	Red, Yellow. Yellow LED on: Vacancy & Sensor is functional; Red LED on: Motion is detected	
Energy Reporting	Calculated from last "power on": % On, Energy Consumed (Whr), System on time (hrs), Avg power consumed (w-hr), Lamp on time (hrs)	
No. Drivers per Sensor	One driver only per sensor	
Field Configuration	via SimpleSet (NFC), parameters set via EasySense App	

Compatible LED Drivers

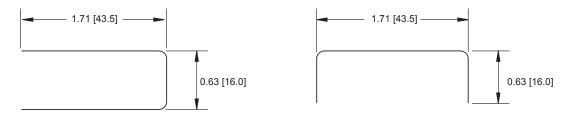
Driver Model Number Description	
XI040C110V054VPT1	Xitanium 40W 0.1-1.1A 27-54V 120-277V SR
XI075C200V054VPT1	Xitanium 75W 0.1-2.0A 27-54V 120-277V SR

Specifications available at www.philips.com/XitaniumSR.

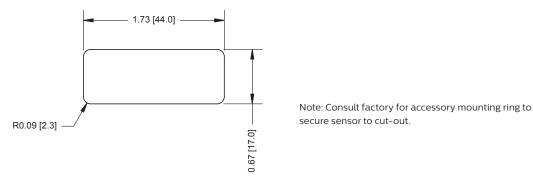


Mounting Dimensions (in./mm)

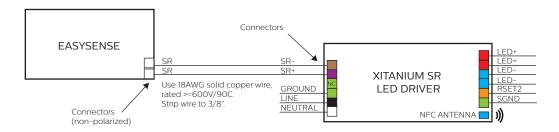
Mounting in U-shaped slot in sheet metal (max thickness 1 mm), tolerance +0.2mm/-0.0mm

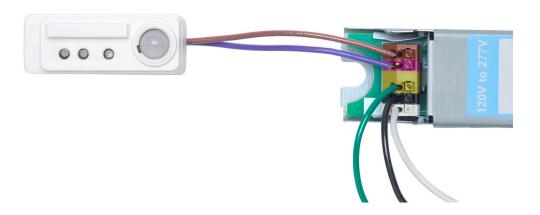


Mounting in cut-out in sheet matal (thickness 0.7 mm to 1.2 mm), tolerance +/-0.2mm



Wiring Diagram

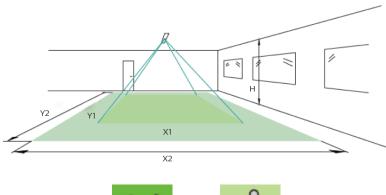




Occupancy Sensing

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).



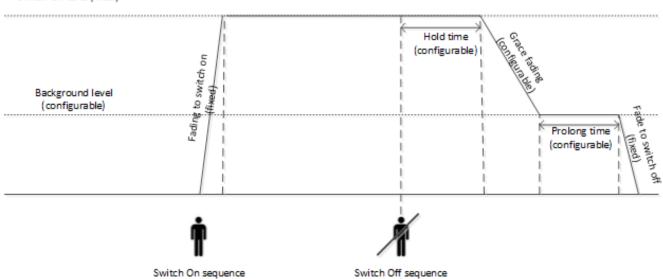




Height	Minor Movement		Major Movement	
h	Y1	X1	Y2	X2
8'/2.4m	10'/2.9m	9'/2.7m	15'/4.5m	9′/2.9m
10'/3m	12'/3.6m	11'/3.4m	18'/5.4m	12'/3.6m

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

Switch On level (fixed)



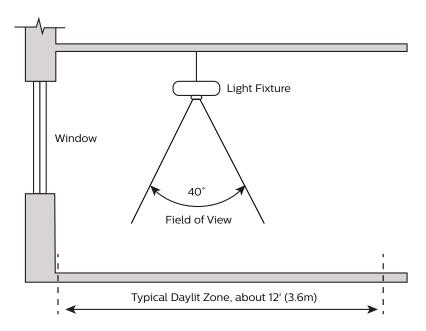
Daylight Sensor

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:

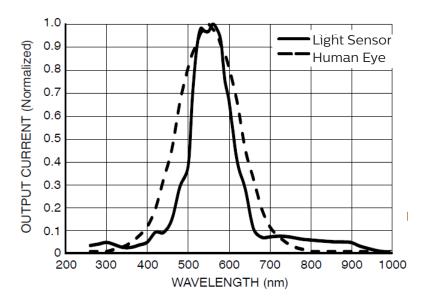
- Minimum distance from the window ≥ 2.0′/0.6m.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

As a guideline the formula $0.72 \times H$ 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



EasySense Configuration App





Default Factory Settings

Occupancy Detection	Auto-on, Enabled
Response time/ Fade to Switch On	0.7 Sec
Occupancy Time Out/Hold Time	15 minutes
Occupancy Grace Fading	10 seconds
Occupancy Prolong Time	15 minutes
Occupancy Background Light Level	20%
Respond time/ Fade to Switch Off	0.7 Sec
Daylight Based Control	Auto-on, Enabled
Full Light Setting	100%
LED Indicators	Enabled

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