





Datasheet

EasySense SNS100 Luminaire-Mount Sensor

The Philips EasySense luminaire-mount sensor is the ideal solution for per-luminaire, stand-alone control of new light luminaires. It combines occupancy sensing, daylight harvesting and task tuning in a single, compact package for easy OEM luminaire 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.

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 luminaires
- 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 energysavings and code-compliancy strategies
- 5-year limited system warranty with Philips Xitanium LED drivers¹

Applications

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

Ordering data

Commercial product name	EOC	Carton Quantity
EasySense StandAlone SNS100	8718696 900567 00	50 pcs/carton

Product Data

All specifications are typical and at 25 °C Tcase unless otherwise specified. Physical Information		
Housing (Luminaire Hole)	44 mm x 17 mm (l x w)	
Net Weight per Piece	17 gr	
Volume required Inside Luminaire (LxWxH)	50 mm x 19 mm x 24 mm	
Color	White	
Connectors	(2) Lite-Trap connectors rated for 0.75 mm ² solid conductor wire	
Wires length to the driver	0-15 meters	
Electrical Information		
Input Voltage	Powered by SR driver low-voltage interface	
Current Consumption	13 mA	
Nominal Power Consumption	200 mW	
Standby Power	< 1 W 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	0.7 sec	
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	CE, ENEC, RTTE, EMC	
Warranty	5 years warranty for released Philips system combination (sensor and compatible driver). 3 years warranty for sensor only.	

Compatible LED Drivers

Digital Interface

Status Indicators

Energy Reporting

No. Drivers per Sensor

Field Configuration

Other

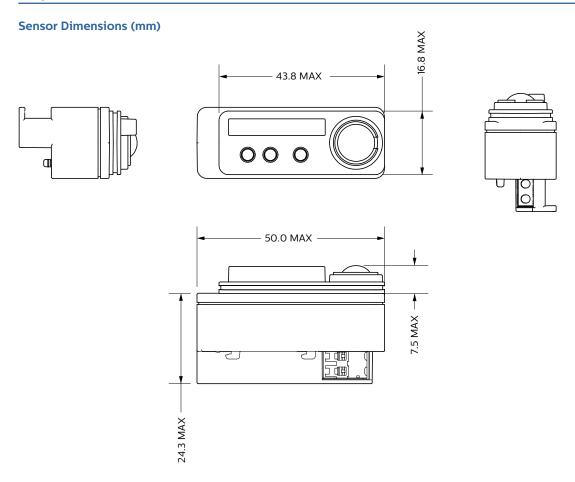
Logistic code 12NC	Description
929001516306	Xitanium 36W 0.3-1A 54V SR 230V

via SimpleSet (NFC), parameters set via EasySense App

Red, Yellow. Yellow LED on: Vacancy & Sensor is functional; Red LED on: Motion is detected Calculated from last "power on": % On, Energy Consumed (Whr), System on time (hrs), Avg power consumed (w-hr), Lamp on time (hrs)

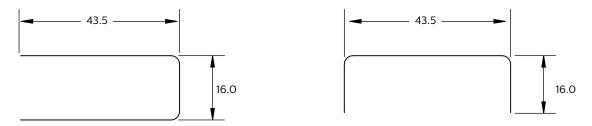
Xitanium SR

0-4 drivers per sensor

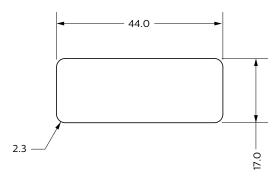


Mounting Dimensions (mm)

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

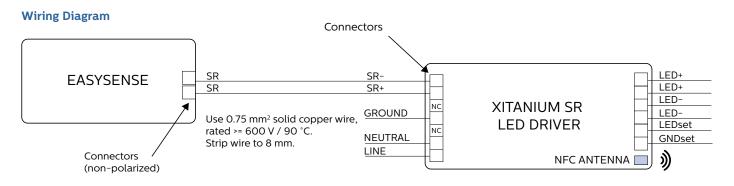


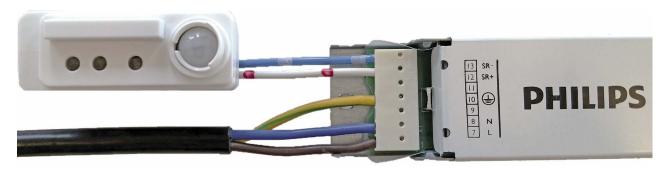
Mounting in cut-out in sheet matal (thickness 0.7 mm to 1.2 mm), tolerance +/-0.2 mm



Note: Consult factory for accessory mounting ring to secure sensor to cut-out. \\

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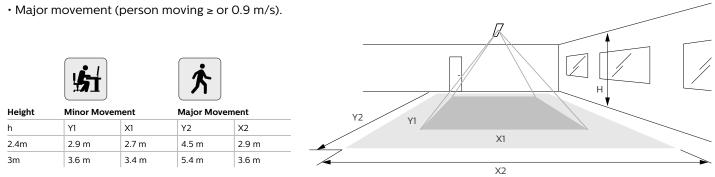


EasySense Luminaire-Mount Sensor

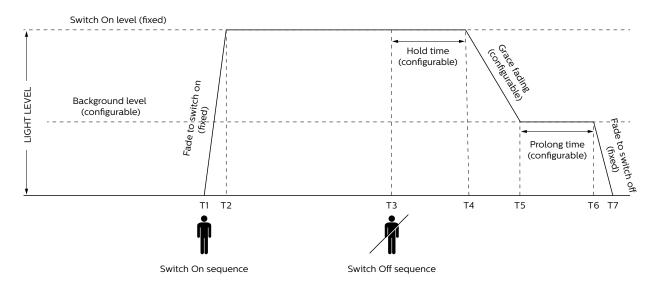
Occupancy Sensing

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

• Minor movement (person moving ≤ or 0.9 m/s).



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



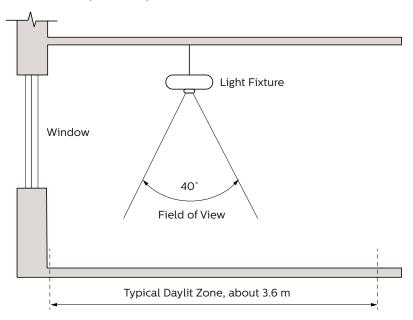
Daylight Sensor

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:

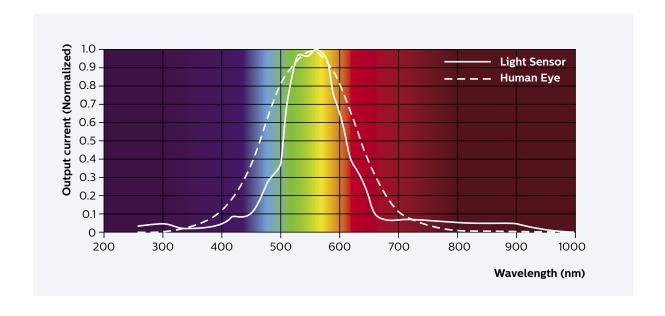
- Minimum distance from the window ≥ 0.6 m.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

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



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EasySense Configuration App





Default Factory Settings

Occupancy Detection	Auto-on, Enabled
Response time/ Fade to Switch On	0.7 seconds
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 seconds
Daylight Based Control	Auto-on, Enabled
Full Light Setting	100%
LED Indicators	Enabled

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