





Datasheet

EasyAir SNS200

The Philips EasyAir SNS200 is the ideal solution for per-luminaire control of new light luminaires. It combines occupancy sensing, daylight harvesting and task tuning in a single, compact package for easy OEM luminaire assembly. EasyAir SNS200 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. An intuitive app makes configuration and commissioning during and after installation fast and easy using Philips Field Apps.

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Compact size, 2-wire connection
- Operates with Philips Xitanium SR drivers and qualified wireless switches
- Preset with most common sensor parameters
- Configuration of sensor parameters— if desired — using NFC or IR via intuitive Android-based Philips Field Apps
- Simple grouping of luminaires to a wireless switch with Philips Field Apps

Benefits

- Combines functionality to reduce need for multiple components
- Fits into existing and new-design luminaires
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on application
- Cost-effective solution for energysavings
- 5-year limited system warranty with Philips Xitanium LED drivers
- Configuration and commissioning from the floor

Applications

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

Ordering Information

Commercial product name	Colour	Description	EOC	12NC	Carton Quantity
EasyAir SNS200/w	White	Office Sensor Advanced Grouping	8718696 698945 00	9290 007 66803	50 pcs
EasyAir SNS200/g	Grey	Office Sensor Advanced Grouping	8718696 712412 00	9290 005 60703	50 pcs
EasyAir SNS200/b	Black	Office Sensor Advanced Grouping	871869959684200	9290 016 51206	50 pcs

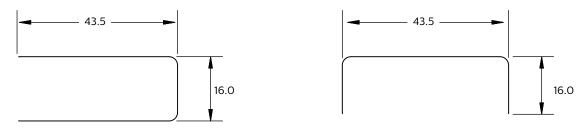
Product Data

Physical Information		
Overall Dimensions	50 mm x 19.0 mm x 31.5 mm	
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 and Grey	
	•	
Connectors	(2) Lite-Trap connectors	
Input wire cross-section (solid conductor wire)	0.25 - 0.75 mm ²	
	18 - 24 AWG	
Input wire cross-section (stranded wire)	0.3 - 0.5 mm ²	
	20 - 22 AWG	
Electrical Information		
nput 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		
Гуре	Passive infrared (PIR)	
Occupancy Based Control	Default enabled	
Occupancy Mode	Auto-on/off, Manual-on/off, Manual-on/auto-off; Red LED indicates "on"	
Group Occupancy Sharing	Enabled/disabled	
Group light behaviour	Background light level, Field task level	
Hold Time	2 - 60 minutes	
Viewing Angle	X = 72°, Y = 86° (See detection pattern)	
Background Light Level	0-100%	
Prolong Time	1 minute - infinity	
Grace Fading	0-25 sec	
Response Time/Fading to Switch On/Off	0.7 sec	
Daylight Sensing		
Daylight based control	Default enabled	
Auto-calibration	Upon power-up	
Daylight dependent switching	Default disabled	
Daylight dependent override	Default disabled	
Viewing Angle	40° (half value sensitivity); 2% cut-off point at 75°	
Task Tuning	10 (Mail fadde Seilstein), 210 car on point acro	
Field Task Level	0-100%	
Environment & Approbation	0 100%	
Operating Ambient Temperature Range	0 °C to 55 °C	
Operating Humidity	0 – 95% non condensing	
Storage Temperature	-25 °C to 85 °C	
Storage Humidity May Case Temperature (Tease)	0-95% non condensing 55 °C	
Max Case Temperature (Tcase)		
Agency Approbations Warranty	CE, ENEC, RTTE, EMC 5 years warranty for released Philips system combination (sensor and compatible driver).	
	3 years warranty for sensor only.	
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	4 max	
Max Distance Switch-to-First-Luminaire	10 m line-of-sight	
Max Distance Luminaire-to-Luminaire	12 m line-of-sight	
No. Switches per Group	10 max	
Field Configuration via NFC or IR, parameters set via Philips Field Apps		

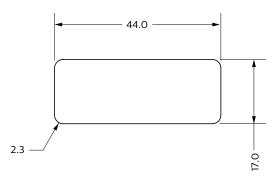
Sensor Dimensions (mm) 43.8 MAX 50.0 MAX XWW 51 YE 57 YE 57

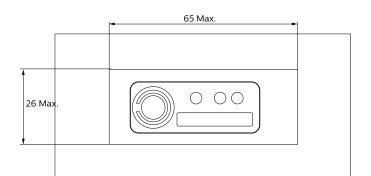
Mounting Dimensions (mm)

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

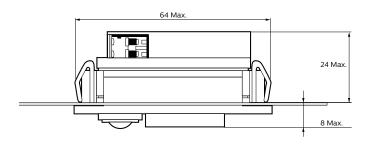


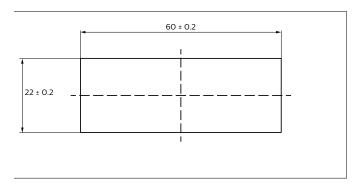


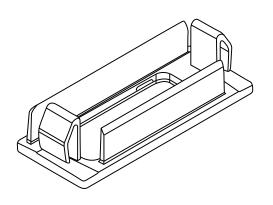
Mounting in a bracket (SMB-50)

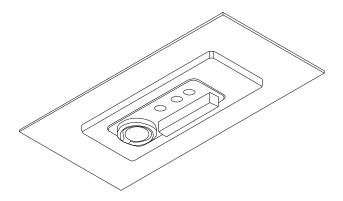
Accessories	Colour	12NC
EasyAir SNS200 SMB-50/w	White	929001540206
EasyAir SNS200 SMB-50/g	Grey	929001540306

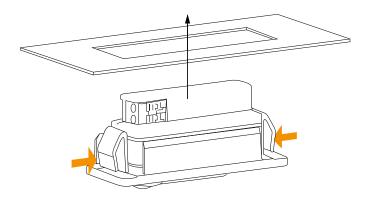
The EasyAir SNS200 can be mounted in a bracket (SMB 50). Refer the figures for details on mounting and design-in into luminaire. All dimensions are in mm.









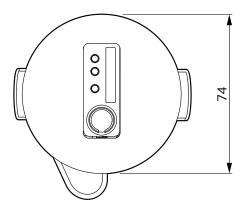


Press springs inwards on both sides before the bracket can slide-in the luminaire hole.

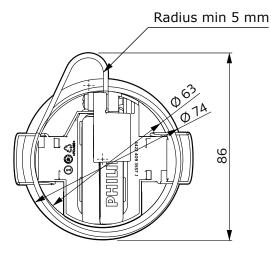
Installing EEasyAir SNS200 with ceiling mount bracket (SNS200CMP)

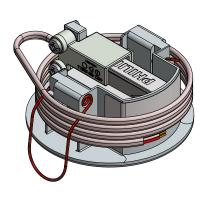
The ceiling mount SNS200CMP bracket is premounted with an EasyAir SNS200 along with the cable. For cut-out in the ceiling and mounting, refer the figures below. All dimensions are in mm.

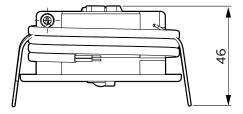
Product	Colour	12NC
EasyAir SNS200CMP	White	9290 007 90206

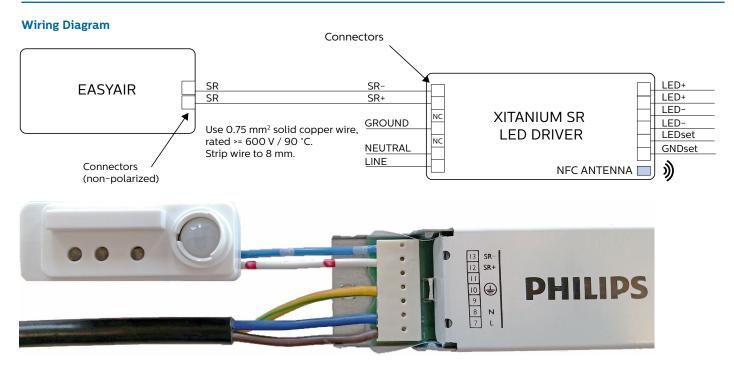










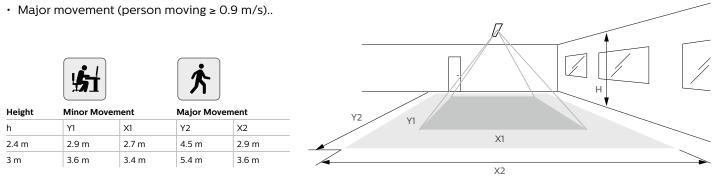


EasyAir SNS200

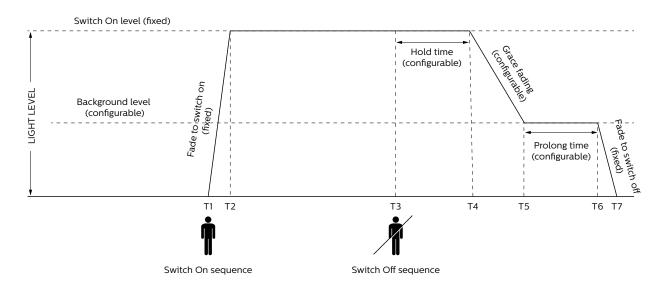
Occupancy Sensing

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

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



Note: Longer dimension of detection area (Y1, Y2) is parallel to longer dimension of EasyAir SNS200.



EasyAir SNS200

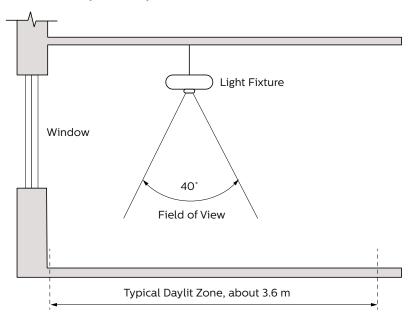
Daylight Sensor

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:

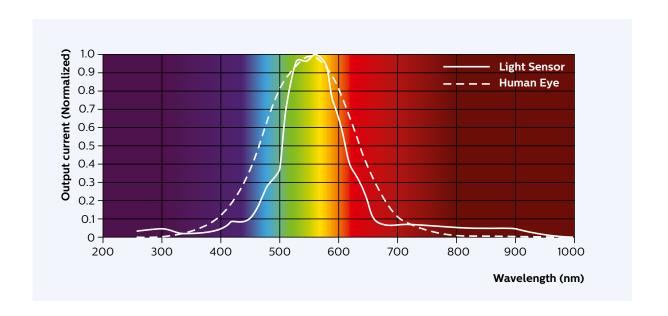
- Minimum distance from the window ≥ 0.6 m.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

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.

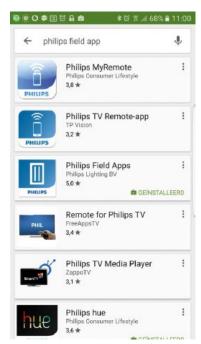
Photosensor Spatial Response



Photosensor Spectral Response



EasyAir SNS200 Configuration App









EasyAir SNS200 parameters can be configured via Philips Field Apps. Two versions are available:

- EasyAir SNS200 NFC This app allows configuring EasyAir SNS200 parameters only, when you can physically access the sensor with a smartphone.
- EasyAir SNS200 IR This app allows grouping of luminaires and adding switches along with easy configuration of EasyAir SNS200 parameters. This can be done via the IR feature of the app using applicable phones from floor level.

You must first register for the app to receive a username and password, then download Philips Field Apps from the Google Play Store. For more information, please visit our website:

http://www.lighting.philips.co.uk/oememea/products/easy-to-integrate-wirelesssensors.html for details including recommended Android phones and user manuals.

Default Factory Settings

Occupancy based control	Auto-on, Enabled
Daylight Based Control	Auto-on, Enabled
Daylight dependent switching	Default disabled
Daylight dependent override	Default disabled
LED Indicator	Enabled
Occupancy Mode	Auto-on/off
Group Occupancy Sharing	Enabled
Group Light Behaviour	Background level
Field Task Tuning	100%
Background Light Level	20%
Hold Time	15 minutes
Prolong Time	15 minutes
Grace Fading	10 seconds
Fade to Switch On	0.7 seconds
Fade to Switch Off	0.7 seconds

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