





Datasheet

EasyAir SNS210 MC NEW

The Philips EasyAir SNS210 MC is the ideal solution for per-luminaire control of new light luminaires. The new version of this sensor features out-of-the-box light regulation and allows for increased networks of up to 120 lights. It combines occupancy and daylight sensing in a single, compact package for easy OEM luminaire assembly. EasyAir SNS210 MC 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 MasterConnect App.

Features

- Out-of-the-box light regulation with preset sensor parameters
- · Groups/networks up to 120 lights
- 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
- · Tunable White with Philips FlexTune driver
- Simple grouping of luminaires to a wireless switch with Philips MasterConnect App.
 Selection of luminaires using a list based on BLE or pointing with standard flashlight.
- Configuration of sensor parameters— at group, zone or single light level
- Simple room level energy reporting with CSV file saved on the phone

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 levels, color temperature and power
- Enables multiple modes such as manual-on/auto-off or manual on/off
- Cost-effective solution for energysavings
- 5-year limited system warranty with Philips Xitanium LED drivers
- Configuration and commissioning from the floor
- Compatibility with qualified gateways

Applications

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

Ordering Information

Commercial product name	Colour	Description	EOC	12NC	Carton Quantity
EasyAir SNS210/w MC	White	Office Sensor Advanced Grouping	871951443424000	929003412306	50 pcs
EasyAir SNS210/b MC	Black	Office Sensor Advanced Grouping	871951443430100	929003412506	50 pcs
EasyAir SNS210/g MC	Grey	Office Sensor Advanced Grouping	871951443428800	929003412406	50 pcs

Product Data

Physical Information So mm x 19.0 mm x 31.5 mm	All specific ations are typical and at 25 °C Tcase u	inless otherwise specified.	
Housing (Luminaire Hole) 44 mm x 17 mm (1x w) Net Weight per Piece 17g 50 mm x 19 mm x 24 mm Color White, black and grey Connectors WAGO 2060 2-pole terminal block rated for AWG24 to AWG18 solid or stranded wire Input wire cross-section (solid conductor wire) 0.25 - 0.75 mm/; 18: 24 AWG Input wire cross-section (stranded wire) 0.3 - 0.5 mm/; 20 - 22 AWG Electrical Information Flore Consumption 13 mA Nominal Power Consumption 200 mW Standby Power 14 W on Luminaire level, including driver standby power Frequency 2.4 GHz Activation Sensors regulate light output out-of-the-box with default settings Coccupancy Sensing Passive Infrared (PIR) Occupancy Based Control Default enabled Group/Zone (Supharod) Background light level, Eco on level Eco-On Level 1 - 100% Hold Time 2 - 100 minutes Viewing Angle X - 6.27 × 8.47 (See detection pattern) Passing Infrared Fading to Switch On/Off 1 second Daylight Sensing Passile (Japh Level calibrated of "May 19 Level calibrated to "Max 19 Level Co-Now". Selectable. Light Level calibrated to "Max 19 Level calibrated to "Max 19 Level Co-Now". Fledid Task Level O-100% With Phillips FlexTune driver, default factory setting: 4000K		·	
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Environment & Approbation		With Phiilips FlexTune driver, default factory setting: 4000K	
	Environment & Approbation		
Operating Ambient Temperature Range 0 °C to 55 °C		0 °C to 55 °C	
Operating Humidity 0 – 85% non condensing	Operating Humidity	0 – 85% non condensing	
Storage Temperature -25 °C - 85 °C	Storage Temperature	-25 °C - 85 °C	
Storage Humidity 0-95% non condensing	Storage Humidity	0-95% non condensing	
Ingress Protection IP20	Ingress Protection	IP20	
Max Case Temperature (Tcase) 55 °C	Max Case Temperature (Tcase)	55 °C	
Agency Approbations CE, ENEC, RTTE, EMC, RCM, SRRC	Agency Approbations	CE, ENEC, RTTE, EMC, RCM, SRRC	
Warranty 5 years	Warranty	5 years	
Digital Interface Xitanium SR	Digital Interface	Xitanium SR	

Other

3 - 11

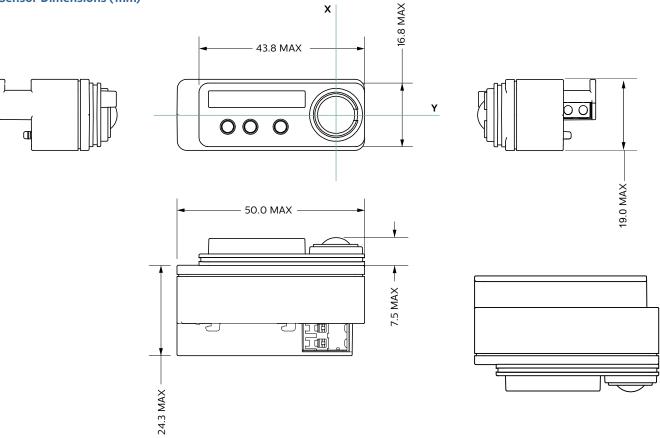
Wireless protocol	2.4 GHz, IEEE 802.15.4	
Encryption	AES - 128	
Status Indicators	After commissioning: Red LED on: Motion is detected; Yellow LED on: Vacancy detected & Sensor is functional	
Energy reporting	Group/Room level using Philips MasterConnect App. Report saved as CSV file on the phone.	
Max no. Devices in a Group	120	
No. SR-Drivers per Sensor	4 max (limited to 1 driver per sensor for support of Tunable White and Energy Reporting features)	
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	15 max, 5 max per zone	
No. Zones per Group	15 max	
Field Configuration	via BLE, parameters set via Philips MasterConnect app	
BLE range for user to luminaire	10m line-of-sight	

Compatible LED Drivers

Logistic code 12NC	Description	
9290 015 05006	Xitanium 75W 0.7-2.0A 54V SR 230V	
9290 015 46406	Xitanium SR Bridge built-in	
9290 015 46506	Xitanium SR Bridge independent	
9290 015 16306	Xitanium 36W 0.3-1A 54V SR 230V	
9290 016 95806	Xitanium 150W 0.2-0.7A 300V SR 230V iXt	
9290 016 95706	Xitanium 100W 0.15-0.5A 300V SR 230V iXt	
9290 016 95606	Xitanium 100W 0.25-0.7A 220V SR 230V	
9290 016 95506	Xitanium 60W 0.08-0.35A 300V SR 230V	
9290 016 95406	Xitanium 60W 0.08-0.35A 220V SR 230V	
9290 016 95306	Xitanium 35W 0.08-0.35A 150V SR 230V	
9290 016 93706	Xitanium 36W 0.08-0.4A 220V SR FlexTune 230V	
9290 016 93806	Xitanium 75W 0.15-0.7A 220V SR FlexTune 230V	

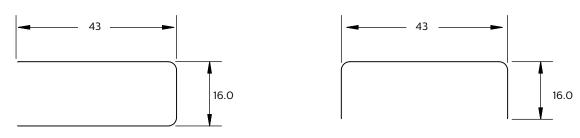
 $Specifications\ available\ at\ \underline{www.lighting.philips.co.uk/oem-emea/support/technical-downloads}$

Sensor Dimensions (mm)

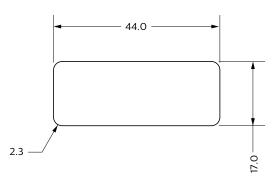


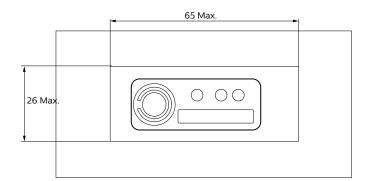
Mounting Dimensions (mm)

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

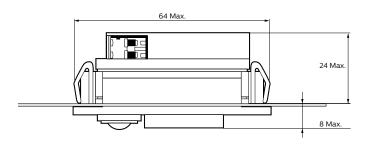


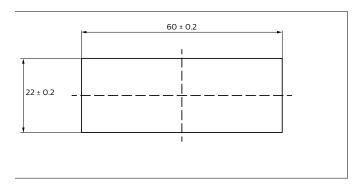


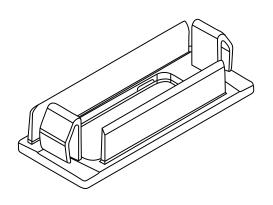
Mounting in a bracket (SMB-50)

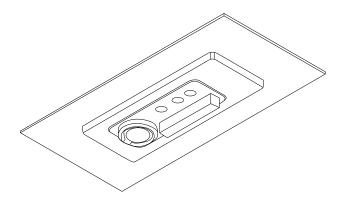
Accessories	Colour	12NC
SMB-50 /w	White	9290 028 13706
SMB-50 /g	Grey	9290 028 12806
SMB-50 /b	Black	9290 021 37306

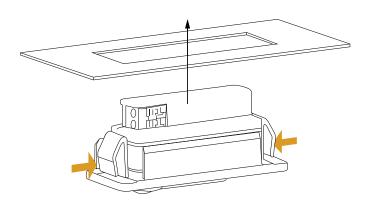
The EasyAir SNS210 MC can be mounted in a surface mounted bracket (SMB-50). Refer the figures for details on mounting and design-in into luminaire. All dimensions are in mm.











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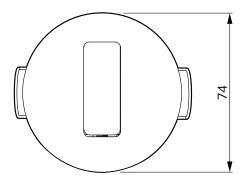
Press springs inwards on both sides before the bracket can slide-in the luminaire hole.

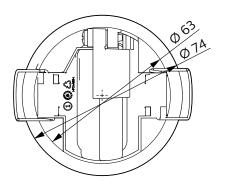
Installing EasyAir SNS210 MC with ceiling mount bracket (CMP/w)

Easy Air SNS210 MC can be mounted outside of the luminaire using the recessed ceiling mount bracket CMP/w. For cutout in the ceiling and mounting, refer the figures below. All dimensions are in mm.

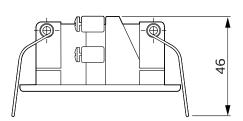
Please note that below accessory CMP/w does not contain a sensor. Assembly of sensor with CMP accessory should be carried out by OEM or installer. The wiring should be kept <2m from Xi SR Driver or SR Bridge.

Product	Colour	12NC
CMP/w	White	9290 034 17206

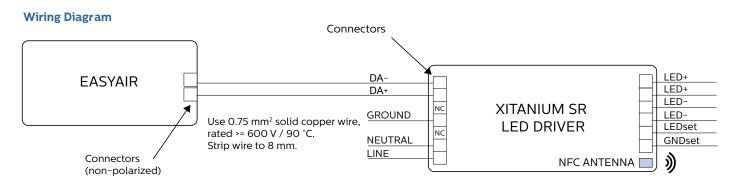


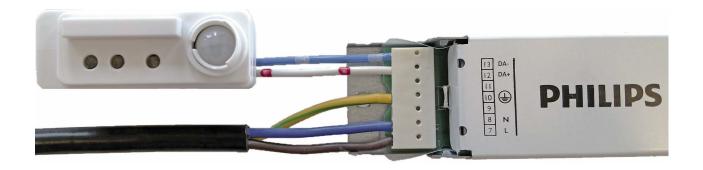






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EasyAir SNS210 MC

Occupancy Sensing

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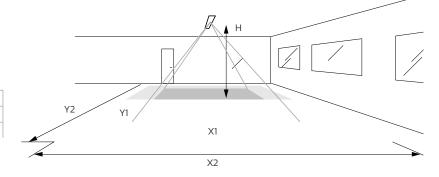
The detection area for the movement sensor can be roughly divided into two parts:

- Minor movement (person moving \leq 0.9 m/s).
- Major movement (person moving ≥ 0.9 m/s)..



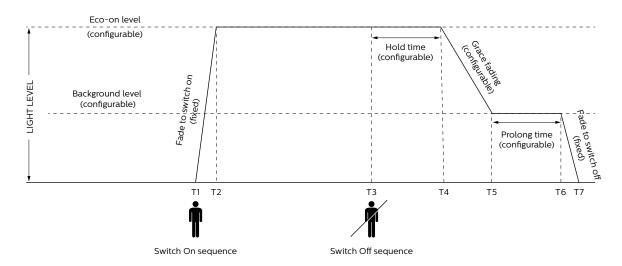
Height Minor Movement		nent	Major Movement		
Н	X1	Y1	X2	Y2	
2.4 m	1.9 m	2.9 m	2.9 m	4.3 m	
3 m	2.4 m	3.6 m	3.6 m	5.4 m	

Note: Longer dimension of detection area (Y1, Y2) is parallel to longer dimension of EasyAir SNS210 MC.



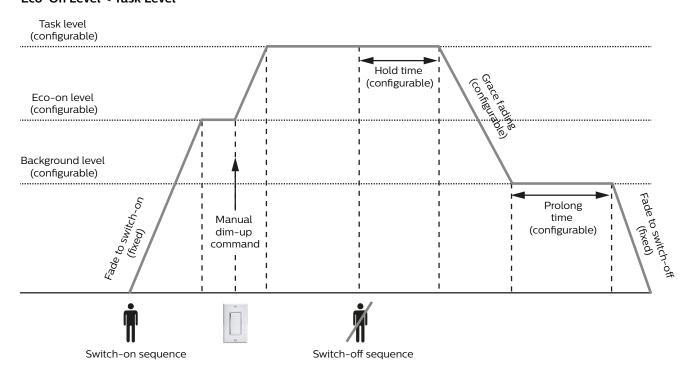
Occupancy Sensing (continued)

Full-On Sequence (Default) Eco-On Level = Task Level



Partial-On Sequence (Configurable) Eco-On Level < Task Level

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EasyAir SNS210 MC

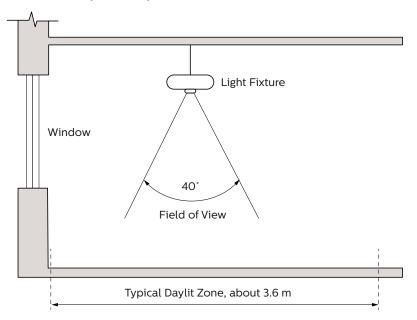
Daylight Sensor

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:

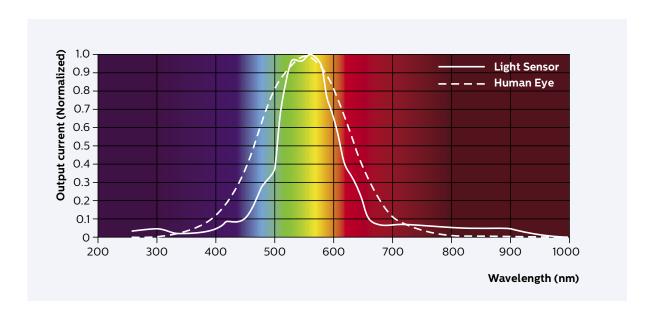
- Minimum distance from the window ≥ 0.6 m.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

As a guideline the formula $0.72 \times h$ can be used to calculate the minimum horizontal distance between the window and sensor whereby h is the vertical height of the sensor measured from the bottom of the window.

Photosensor Spatial Response

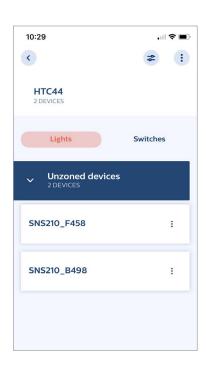


Photosensor Spectral Response



EasyAir SNS210 MC Configuration App





EasyAir SNS210 MC parameters can be configured via Philips MasterConnect App.

This app allows grouping of luminaires and adding switches along with easy configuration of EasyAir SNS210 MC parameters.

Download Philips MasterConnect App from the App Store or Play Store. For more information, please visit our website:

https://www.lighting.philips.co.uk/oememea/support/technical-downloads

Default Factory Settings

Occupancy based control	Enabled
Daylight Based Control	Enabled
Occupancy Mode	Auto-on/off
Group/Zone Occupancy Sharing	Enabled
Group/Zone Lighting Behaviour	Background level
Zone Occupancy Sharing	Disabled
Field Task Tuning	100%
Eco-On Level	100%
Background Light Level	20%
Hold Time	10 minutes
Prolong Time	10 minutes
Grace Fading	10 seconds
Fade to Switch On	1 second (fixed value)
Fade to Switch Off	1 second (fixed value)

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