









The Philips EasySense SNS210 MC from Signify is an economical and touchless lighting control solution that provides per-luminaire control of new LED luminaires. It combines occupancy and daylight sensing in a single, compact package for easy OEM luminaire assembly. EasySense SNS210 MC operates with the Advance Xitanium SR driver to make a simple two-wire connection between sensor and driver, thus eliminating the need for multiple components and auxiliary devices. It provides advanced lighting controls functionalities without the need for a central gateway.

To improve the user experience during commissioning, Signify has also updated the commissioning app. This improved version is called MasterConnect. It's available for either the iOS or Android smartphones. There are numerous enhancements and new functionalities to improve the user experience in commissioning the Philips EasySense SNS210 MC.

EasySense SNS210 MC also supports simple control of tunable white fixtures with award-winning Advance FlexTune System. It also supports room level energy reporting without the need for a separate gateway. These advance features and updated field app make EasySense SNS210 MC a very cost effective DLC-qualified networked lighting control solution.

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- · Compact size, 2-wire connection (SR)
- Operates with Advance Xitanium SR drivers and compatible Zigbee wireless switches
- · Preset with most common sensor parameters
- Simple grouping and zoning of luminaires to a wireless switch with Philips MasterConnect App
- Selection of luminaires using a list based on BLE signal strength or pointing with standard flashlight
- Configuration of sensor parameters— at group level or single light level
- Simple room level energy reporting with CSV file saved on the phone
- Tunable White in combination with Advance FlexTune SR driver

Benefits

- Combines functionality to reduce need for multiple components
- \cdot Fits into existing and new-design luminaires
- Quick task tuning in the field to optimize light and power levels
- Enables multiple modes such as manual -on/auto-off or manual on/off
- · Cost-effective solution for energy-savings
- Configuration and commissioning from the floor
- \cdot Easy verification of energy savings at room level
- Simple wireless control for Tunable White fixtures
- · Qualified for maximum utility rebate
- 5-year limited system warranty with Philips Xitanium LED drivers

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.

Order Code SNS210 MC Full Product Name Philips EasySense SNS210 MasterConnect (MC) Carton Quantity 50 pcs/carton Physical Information Overall Dimensions 50 mm x 19.0 mm x 31.5 mm Housing (Luminaire Hole) 44 mm x 17 mm (1 x w) Net Weight per Piece 0.60z / 17gr Yolume Required Inside Luminaire (LuXMH) 50 mm x 19 mm x 24 mm Color White Connectors Wolz O2002 - pole terminal block. Rated for AWG24 to AWG818 solid or AWG220 AWG20 stranded wire Toput Voltage Powered by SR driver low-voltage interface Gurrent Consumption 3 mm Standard Power 2 via un luminaire level, including driver standby power Topus Possive Infrared (PIR) Possive Infrared (PIR) Occupancy Sensing Passive Infrared (PIR) Occupancy Based Control Default enabled; activated upon commissioning Group Occupancy Sharing Auto-on/off, Manual-on/off, Manual-on/auto-off, Red LED indicates occupancy detected Group Lighting Behavior Auto-on/off, Manual-on/off, Manual-on/auto-off, Red LED indicates occupancy detected Group Lighting Behavior 2 indo minute Buol T	Ordering Information	
12NC 92901756513 Carton Quantity 50 pcs/carton Physical Information Overall Dimensions 50 mm x 19.0 mm x 31.5 mm Housing (Luminaire Hole) 44 mm x 17 mm (1 x w) Net Weight per Piece 0.60 x / T/gr Volume Required Inside Luminaire (LxWxH) 50 mm x 19 mm x 24 mm Color White Connectors WAGO 2060 2-pole terminal block. Rated for AWG24 to AWG18 solid or AWG22 to AWG20 stranded wire Sensor Ready (SR) Interface Input Voltage Powered by SR driver low-voltage interface Current Consumption 13m A Nominal Power Consumption 20m W Standby Power 2 1 W on luminaire level, including driver standby power Occupancy Sensing Type Passive infrared (PIR) Occupancy Based Control Default enabled : activated upon commissioning Occupancy Based Control Auto-on/off, Manual-on/auto-off, Red LED Indicates occupancy detected Group Lighting Behavior Background light level. Eco on level Eco-On Level 1-100% Hold Time 2-62°, v = 84° (See detection pattern)	Order Code	SNS210 MC
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Physical Information Overall Dimensions 50 mm x 19.0 mm x 31.5 mm Housing (Luminaire Hole) 44 mm x 17 mm (1 x w) Net Weight per Piece 0.6oz / 17gr Volume Required Inside Luminaire (LxWXH) 50 mm x 19 mm x 24 mm Color White Connectors WAGO 2060 2-pole terminal block. Rated for AWG24 to AWG38 solid or AWG22 to AWG20 stranded wire Sensor Ready (SR) Interface Input Voltage Powered by SR driver low-voltage interface Current Consumption 13mA Nominal Power Consumption 200mW Standby Power 14 W on luminaire level, including driver standby power Occupancy Sensing Passive infrared (PIR) Occupancy Based Control Default enabled ; activated upon commissioning Occupancy Mode Auto-on/off, Manual-on/off, Manual-on/auto-off, Red LED indicates occupancy detected Group Cupancy Sharing Enabled/disabled Group Lighting Behavior Background light Level, Eco on level Eco-On Level 1-100% Hold Time 2-100 minutes Viewing Angle X = 62°, Y = 84° (See detection pattern) Background Light Lev	12NC	929001756513
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Input Voltage Powered by SR driver low-voltage interface Current Consumption 13mA Nominal Power Consumption 200mW Standby Power	Color	White
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 Type Passive infrared (PIR) Occupancy Based Control Default enabled; activated upon commissioning Occupancy Mode Auto-on/off, Manual-on/off, Manual-on/eff; Red LED indicates occupancy detected Group Occupancy Sharing Enabled/disabled Group Lighting Behavior Background light level, Eco on level Eco-On Level 1-100% Hold Time 2-100 minutes Viewing Angle X = 62°, Y = 84° (See detection pattern) Background Light Level 1-100% Prolong Time 2-100 minutes + infinite Grace Fading 1-25 seconds	Connectors	WAGO 2060 2-pole terminal block. Rated for AWG24 to AWG18 solid or AWG22 to AWG20 stranded wire
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Nominal Power Consumption 200mW Standby Power < 1 W on luminaire level, including driver standby power	Input Voltage	Powered by SR driver low-voltage interface
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Occupancy Based Control Default enabled; activated upon commissioning Occupancy Mode Auto-on/off, Manual-on/off, Manual-on/auto-off; Red LED indicates occupancy detected Group Occupancy Sharing Enabled/disabled Group Lighting Behavior Background light level, Eco on level Eco-On Level 1-100% Hold Time 2-100 minutes Viewing Angle X = 62°, Y = 84° (See detection pattern) Background Light Level 1-100% Prolong Time 2 - 100 minutes + infinite Grace Fading 1-25 seconds	Occupancy Sensing	
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Eco-On Level 1-100% Hold Time 2-100 minutes Viewing Angle X = 62°, Y = 84° (See detection pattern) Background Light Level 1-100% Prolong Time 2 - 100 minutes + infinite Grace Fading 1-25 seconds	Group Occupancy Sharing	Enabled/disabled
Hold Time 2-100 minutes Viewing Angle X = 62°, Y = 84° (See detection pattern) Background Light Level 1-100% Prolong Time 2 - 100 minutes + infinite Grace Fading 1-25 seconds	Group Lighting Behavior	Background light level, Eco on level
Viewing Angle X = 62°, Y = 84° (See detection pattern) Background Light Level 1-100% Prolong Time 2 - 100 minutes + infinite Grace Fading 1-25 seconds	Eco-On Level	1-100%
Background Light Level 1-100% Prolong Time 2 - 100 minutes + infinite Grace Fading 1-25 seconds	Hold Time	2-100 minutes
Prolong Time 2 - 100 minutes + infinite Grace Fading 1-25 seconds	Viewing Angle	X = 62°, Y = 84° (See detection pattern)
Grace Fading 1-25 seconds	Background Light Level	1-100%
-	Prolong Time	2 - 100 minutes + infinite
Fading to Switch On/Off 1 seconds	Grace Fading	1-25 seconds
	Fading to Switch On/Off	1 seconds

Product Data (continued)

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

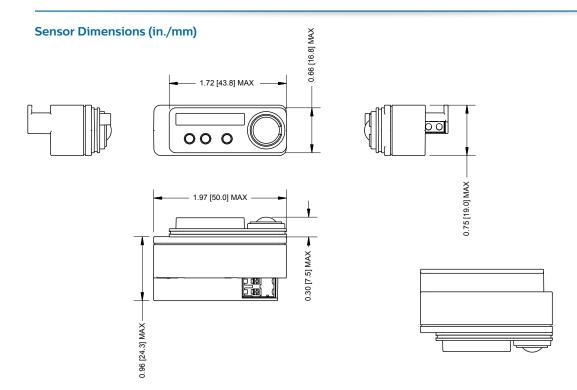
Daylight Sensing			
Daylight based control	Enable/Disable. Default Enabled with target light level of "500lux X Eco-ON%". Actual Lux value will be fixture and application dependent. Daylight sensor calibration is selectable at the time of commissioning and configuration. Light Level calibrated to "Max light output from fixture X Eco-ON%"		
Viewing Angle	40° (half value sensitivity); 2% cut-off point at 75°		
Task Tuning			
Field Task Level	0-100%		
Environment & Approbation			
Operating Ambient Temperature Range	0°C to 55°C		
Operating Humidity	0 – 85% 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-SSMC; IC: 20659-SSMC		
Warranty	5 years		
Digital Interface	Sensor Ready (SR), a standard-compliant (ANSI C137.4 and DiiA) digital interface		
Other			
Wireless Protocol	2.4 Ghz, IEEE 802.15.4		
Cybersecurity certification	IEC 62443 compliant, IEC 62443-4-1		
Encryption	AES-128		
Energy Reporting	Group/Room level using Philips MasterConnect App, Report saved as CSV file on the phone.		
LED Status Indicators	After commissioning: Red LED on: Motion is detected; Yellow LED on: Vacancy detected & Sensor is functional		
No. 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-Fixture	33ft line-of-sight		
Max Distance Fixture-to-Fixture	40ft line-of-sight		
Max No. of Devices in a Group	40 (automated behavior without switches) 30 (all use cases supported including switches) 20 (all use cases including group level energy reporting)		
No. Switches per Group	5 max		
Field Configuration	via BLE, parameters set via Philips MasterConnect App		

Compatible LED Drivers

Driver Model Number	Description
XI040C110V054VPT1	Xitanium 40W 1.1A 54V 120-277V SR
XI040C110V054VPT2	Xitanium 40W 1.1A 54V 120-277V SR (1% dim)
XI040C110V050VWT1	Xitanium 40W 1.1A 50V 120-277V SR (1% dim) FlexTune
XI075C200V054VPT1	Xitanium 75W 2.0A 54V 120-277V SR

Compatible Xitanium SR Bridges
SRB-BS
SRB-LD

Specifications available at www.philips.com/xitaniumsr/na.



Mounting Dimensions (in./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



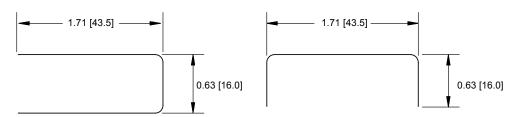
Accessory Mounting Bracket

Part Number SMB-50 / Set of 50

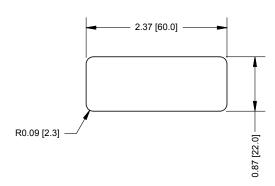
- (1) SMB-50 includes (50) mounting brackets
- Ordered separately, not included with EasySense
- Dimensions: 64.1mm x 25.3mm x 10.3mm



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



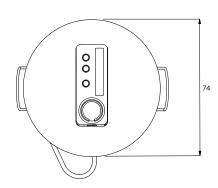
Mounting in cut-out in sheet matal (thickness 0.7 mm to 1.0 mm), tolerance \pm 0.2 mm



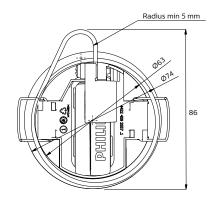
Accessory Ceiling Mounting Bracket

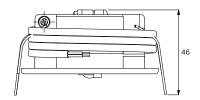
12NC: 929002137106

- CMP bracket is available as a bracket without any pre-mounted sensor or cable.
- The sensor needs to be inserted the CMP bracket and the cable needs to be attached to it.
- The cable and screws are available with the accessory.

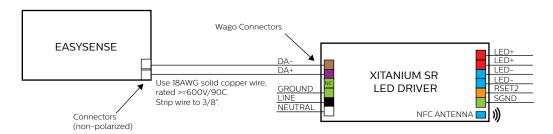


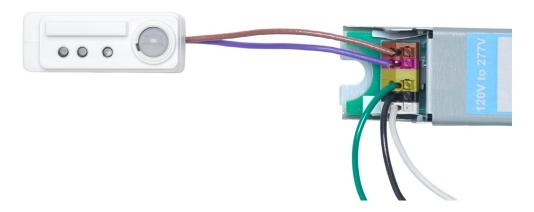






Wiring Diagram

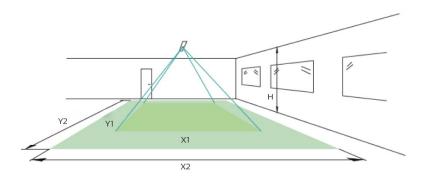




Occupancy Sensing

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)







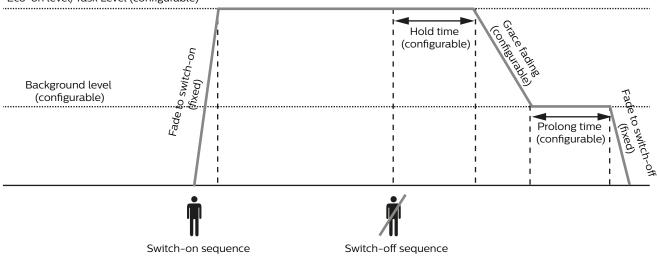
Height	Minor Movement		Major Movement	
Н	Y1	X1	Y2	X2
8'/2.4m	10'/2.9m	6'/1.9m	14'/4.3m	9′/2.9m
10'/3m	12'/3.6m	8'/2.4m	18'/5.4m	12'/3.6m

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

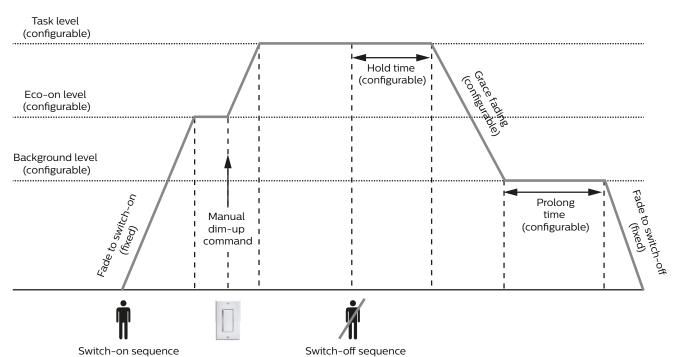
Occupancy Sensing (continued)

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

Eco-on level/Task Level (configurable)



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



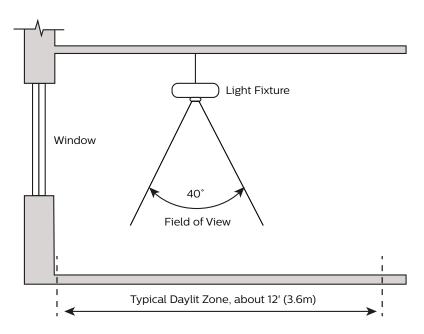
Daylight Sensor

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:

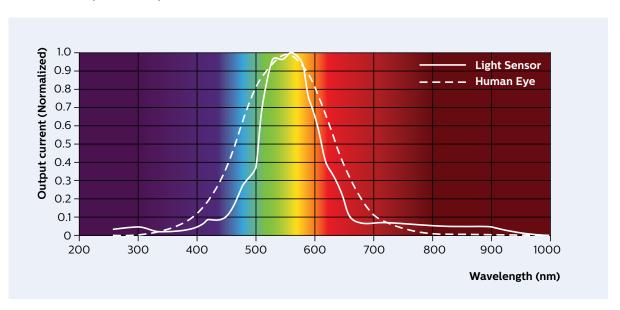
- Minimum distance from the window ≥ 2.0′/0.6m.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

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



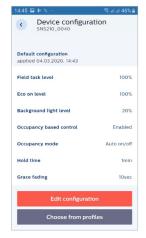
EasySense Configuration App (Philips field app MC)











EasySense SNS210 MC parameters can be configured via MasterConnect App.

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

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

https://www.usa.lighting.philips.com/ products/lighting-components/easysense/ easysense-sns210mc

for details including recommended phones and user manuals.

Default Factory Settings

Occupancy Based Control	Enabled
Daylight-Based Control	Enabled
Occupancy Mode	Auto-on/off
Group Occupancy Sharing	Enabled
Group Lighting Behavior	Background level
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)
Color Temperature (only with FlexTune SR driver)	4000K

Compatible Wireless Switches

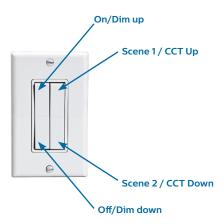
Manufacturer	Model	Style
Illumra	ZBT-S1AWH	Single Rocker Self Powered
Illumra	ZBT-S2AWH	Dual Rocker Self Powered
Magnum Energy Solutions	MZ-SW1	Single Rocker Self Powered
	MZ-SW2	Dual Rocker Self Powered
	MZ-ASW1	Single Rocker Self Powered
	MZ-ASW2	Dual Rocker Self Powered
	MZ-ESRP	Single Rocker Self Powered
	MZ-EDRP	Dual Rocker Self Powered

- · Max no. sensors per switch: 30
- · Manufacturers links to product information:
 - o Illumra (www.illumra.com/easysense)
 - Magnum Energy Solutions: www.magnumenergysolutions.com/products

Single-Rocker Functions (typical switch shown)



Dual-Rocker Functions (typical switch shown)



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