

**PHILIPS**

Sensors

EasyAir

SNS410 MC



## Datasheet

# EasyAir SNS410 MC

The Philips EasyAir SNS410 MC is a radio transceiver for wireless control of luminaires via wireless switches, ZigBee commands from sensors or a gateway. It has the same form factor as the Philips EasyAir SNS210 MC sensor. EasyAir SNS410 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

- Simple grouping of luminaires to a wireless switch or ZGP sensor with Philips MasterConnect app.
- Selection of luminaires using a list based on BLE or pointing with standard flashlight.
- Compact size, 2-wire connection
- Operates with Philips Xitanium SR drivers and qualified wireless switches
- Tunable White with Philips FlexTune driver
- Simple room level energy reporting with CSV file saved on the phone

### Benefits

- Quick task tuning in the field to optimize light levels, colour temperature and power
- Fits into existing and new-design luminaires
- Cost-effective solution for energy-savings
- 5-year limited system warranty with Philips Xitanium SR 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

April 2022

## Ordering Information

Commercial product name	Colour	Description	EOC	12NC	Carton Quantity
EasyAir SNS410/w MC	White	Office Sensor Advanced Grouping	871869972372900	929002137006	50 pcs

## Product Data

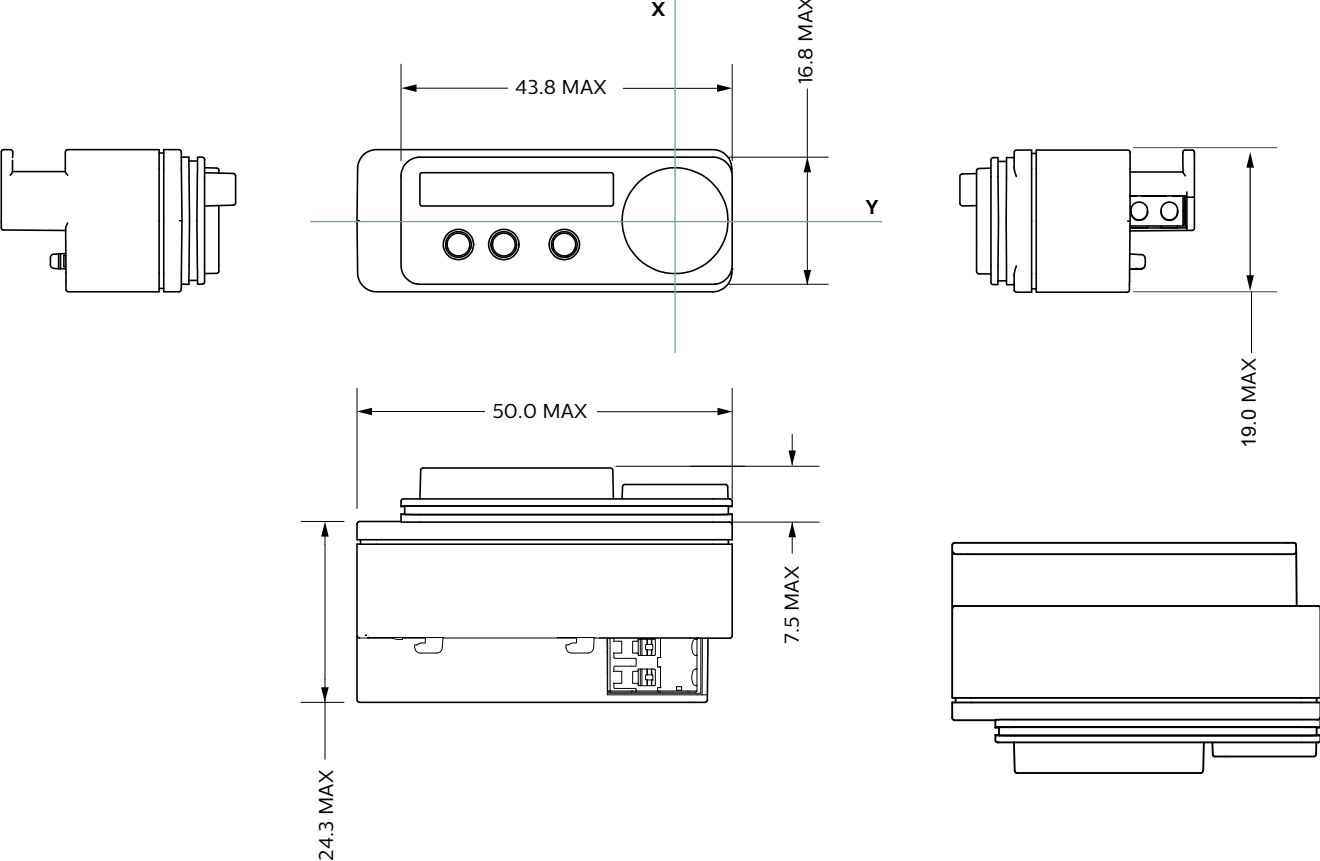
All specifications are typical and at 25 °C Tcase unless otherwise specified.

<b>Physical Information</b>	
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
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 <sup>2</sup> , 18 - 24 AWG
Input wire cross-section (stranded wire)	0.3 - 0.5 mm <sup>2</sup> , 20 - 22 AWG
<b>Electrical Information</b>	
Input Voltage	Powered by SR driver low-voltage interface
Current Consumption	11 mA
Nominal Power Consumption	160 mW
Standby Power	< 1 W on luminaire level, including driver standby power
Frequency	2.4 GHz
<b>Task Tuning</b>	
Field Task Level	0-100%
Tunable White	With Philips FlexTune driver, default factory setting: 4000K
<b>Environment &amp; Approbation</b>	
Operating Ambient Temperature Range	-30°C to 65°C
Operating Humidity	20 - 85% non condensing
Storage Temperature	-30°C to 85°C
Storage Humidity	10-95% non condensing
Pollution degree	2
Ingress Protection	IP20
Max Case Temperature (Tcase)	65°C
Agency Approbations	CE, ENEC, RED
Warranty	5 years
Digital Interface	Xitanium SR
<b>Other</b>	
Wireless protocol	2.4 GHz, IEEE 802.15.4
Encryption	AES - 128
Status Indicators	Yellow LED: power is on
Energy reporting	Group/Room level using Philips MasterConnect App. Report saved as CSV file on the phone.
Max no. Devices in a Group	40 (use cases without switches); 30 (use cases including switch); 20 (all use cases including group level energy reporting)
No. SR-Drivers per Sensor	4 max (limited to 1 driver per sensor for support of Energy Reporting)
No. FlexTune SR-Drivers per Sensor	4 max (limited to 1 driver per sensor for support of Energy Reporting and for different Tunable White configurations)
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	5 max
Field Configuration	via BLE, parameters set via Philips MasterConnect App
BLE range for user to luminaire	10m line-of-sight

## Compatible LED Drivers

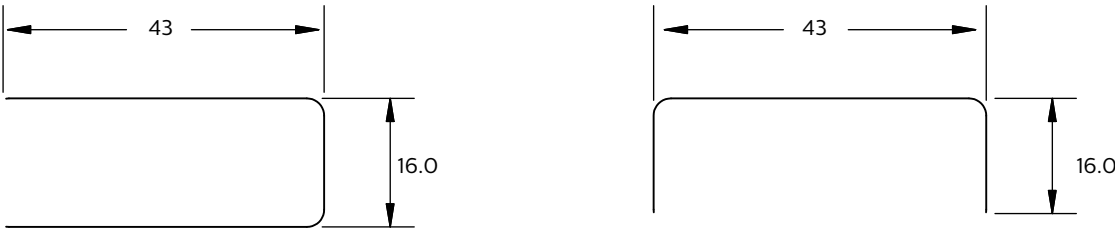
Logistic code 12NC	Description
9290 015 05006	Xitanium 75W 0.7-2.0A 54V SR 230V
9290 015 40806	Xitanium 100W 0.15-0.5A 300V SR 230V iXt
9290 015 40906	Xitanium 150W 0.2-0.7A 300V SR 230V iXt
9290 015 46406	Xitanium SR Bridge built-in
9290 015 46506	Xitanium SR Bridge independent
9290 015 40706	Xitanium 100W 0.25-0.7A 220V SR 230V
9290 015 40506	Xitanium 60W 0.08-0.35A 220V SR 230V
9290 015 40606	Xitanium 60W 0.08-0.35A 300V SR 230V
9290 015 40406	Xitanium 35W 0.08-0.35A 150V SR 230V
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

Sensor Dimensions (mm)

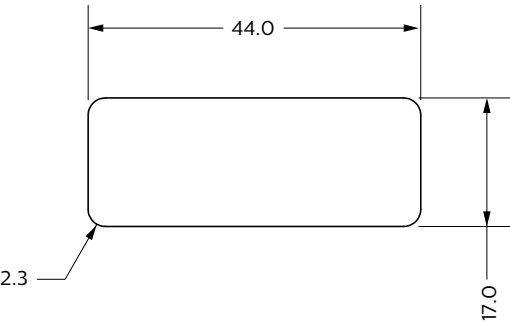


Mounting Dimensions (mm)

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



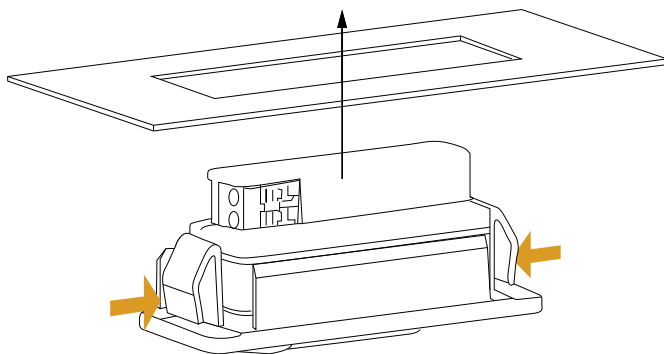
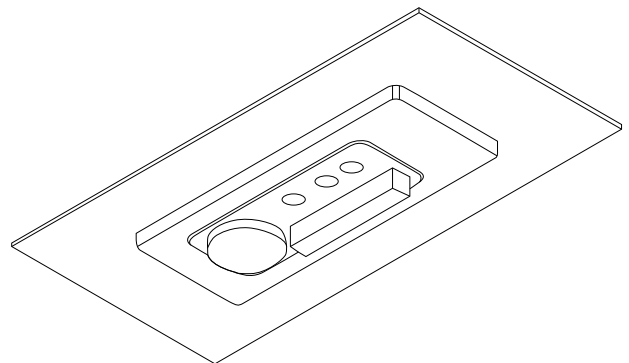
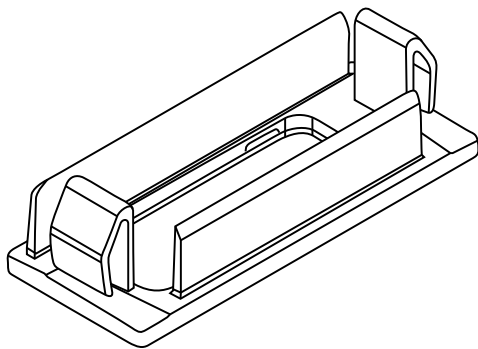
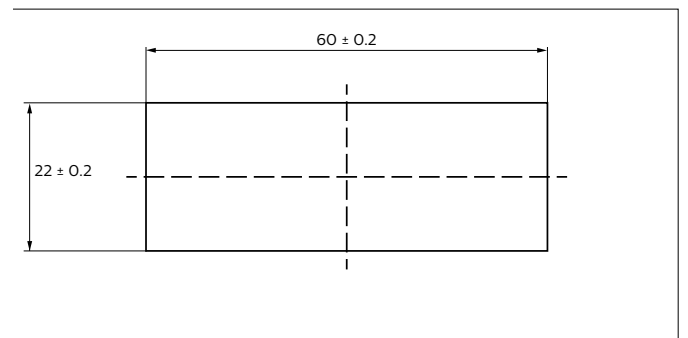
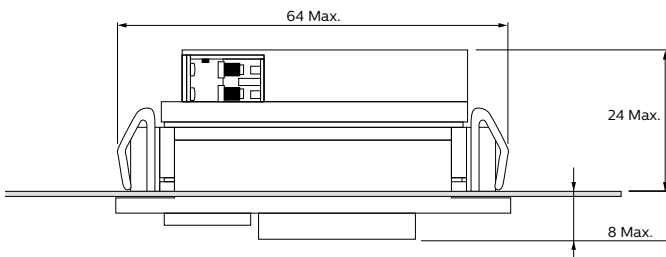
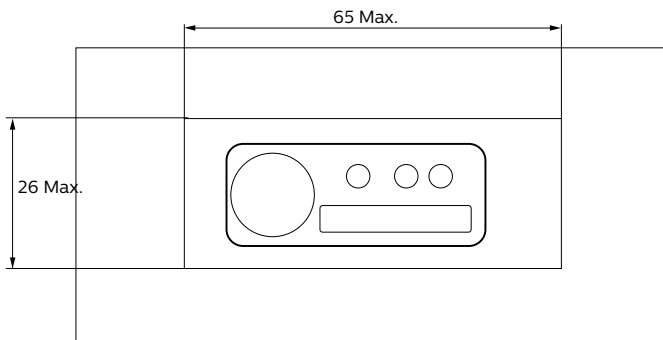
Mounting in cut-out in sheet metal (thickness 0.7 mm to 1.2 mm), tolerance +/-0.2 mm



### 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 SNS410 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.



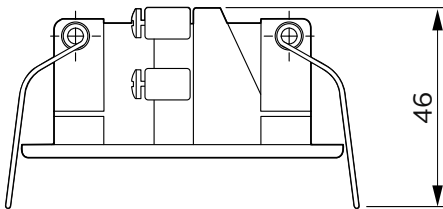
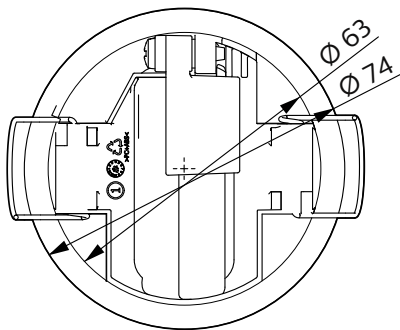
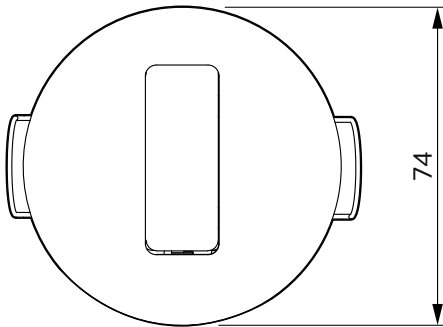
Press springs inwards on both sides before the bracket can slide-in the luminaire hole.

Installing EasyAir SNS410 MC with ceiling mount bracket (CMP/w)

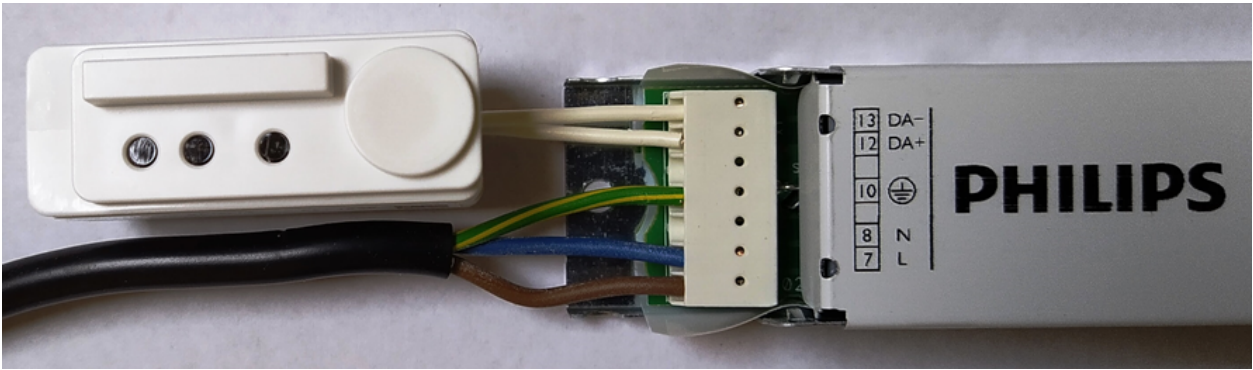
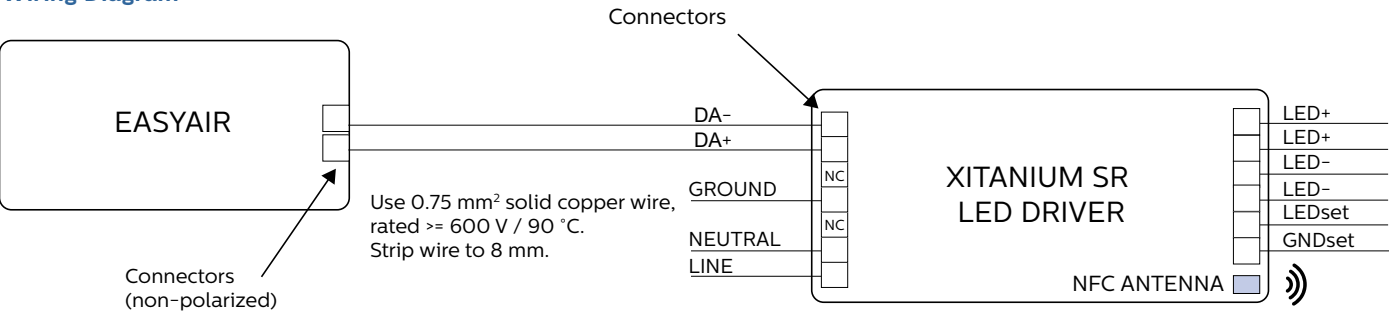
Easy Air SNS410 MC can be mounted outside of the luminaire using the recessed ceiling mount bracket CMP/w. For cut-out in the ceiling and mounting, refer the figures below. All dimensions are in mm.

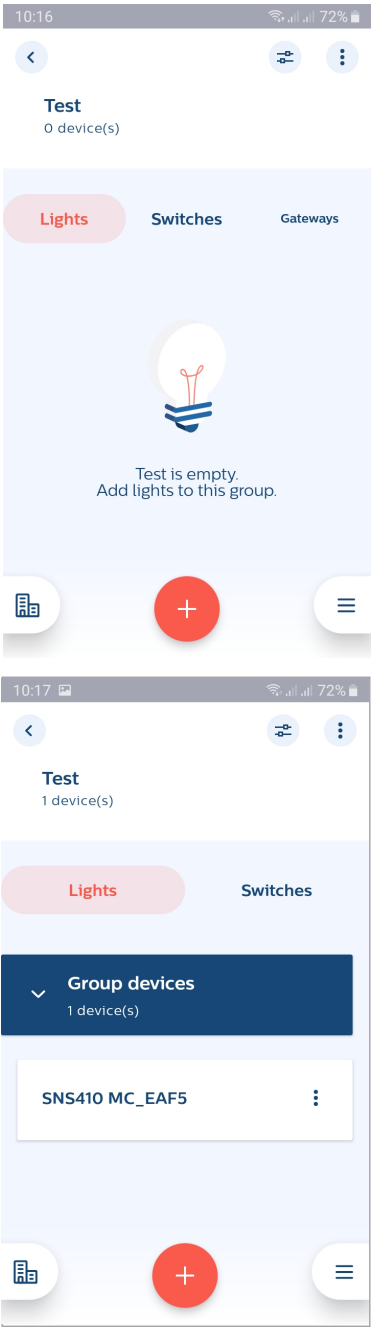
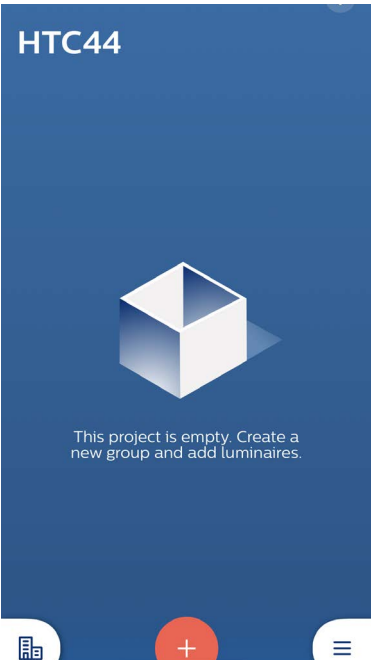
Please note that below accessory CMP/w does not contain a sensor. Assembly of sensor with CMP accessory should be carried out by OEM or installer. The wiring is included with this bracket and should be kept <2m from Xi SR Driver or SR Bridge.

Product	Colour	12NC
CMP/w	White	9290 021 37106



Wiring Diagram





EasyAir SNS410 MC parameters can be configured via Philips MasterConnect App.

This app allows grouping of luminaires and adding switches along with easy configuration of EasyAir SNS410 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/oem-emea/support/technical-downloads>

Default Factory Settings

Occupancy Mode	Manual on/off
Field Task Tuning	100%
Eco-On Level	100%
Background Light Level	20%



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