

PHILIPS

Sensors

SNS210 IA



Specification Sheet

SNS210 IA

The Philips SNS210 IA is the ideal solution for per-luminaire control of luminaires. It combines occupancy sensing, daylight harvesting and task tuning in a single, compact package for easy luminaire assembly. The SNS210 IA operates with the established Xitanium SR driver standard or NatureConnect link-box to make a simple two wire connection between sensor and driver / NatureConnect link, thus eliminating the need for multiple components and auxiliary devices.

A luminaire with an integrated SNS210 IA will work in both the Interact Office and the Interact Pro systems.

SNS210 IA

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Compact size, 2-wire connection
- Operates with Philips Xitanium SR drivers, NatureConnect link box and qualified wireless switches
- Configuration of the sensor parameters by the Interact Office or Interact Pro applications

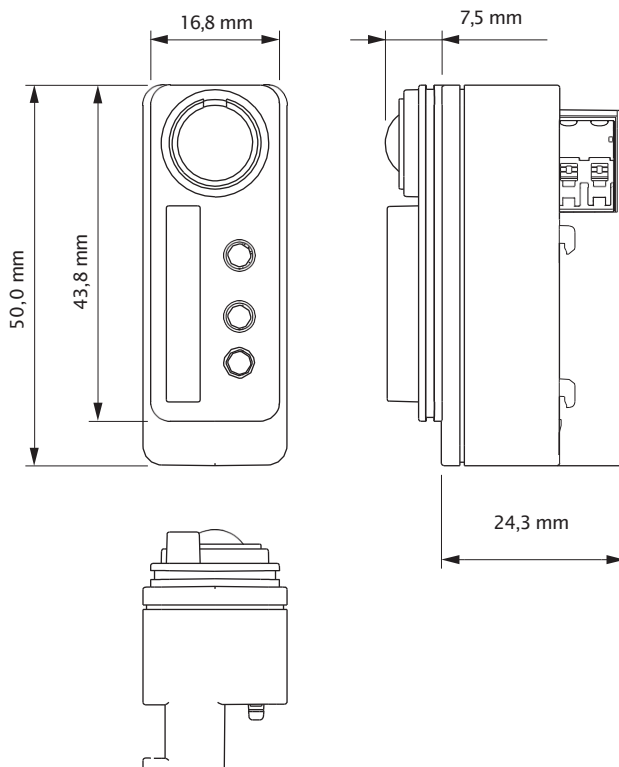
Benefits

- Combines functionality to reduce need for multiple components
- Fits into existing and new-design luminaires
- Cost-effective solution for energy-savings
- Five year limited system warranty with Philips Xitanium LED drivers

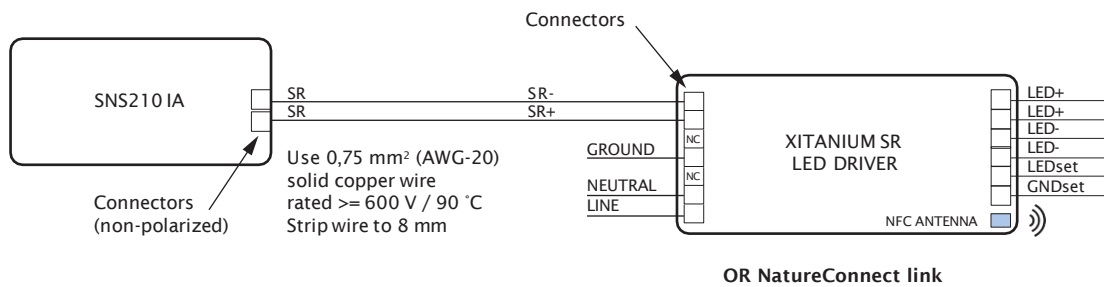
Applications

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

Sensor dimensions



Wiring diagram



Occupancy sensing

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

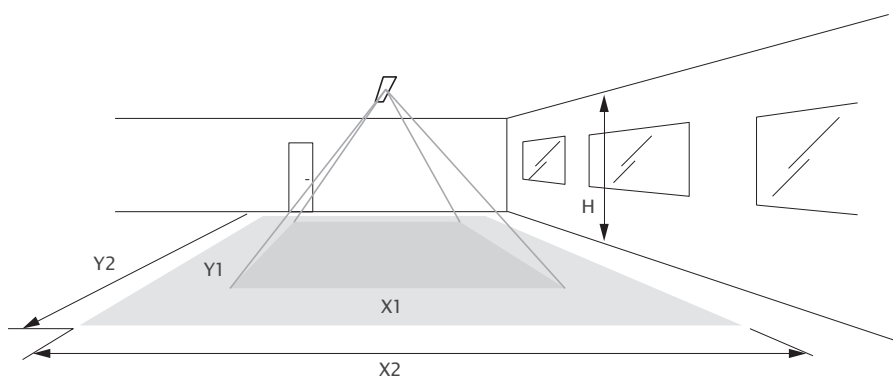
- Minor movement, person moving $\leq 0,9 \text{ m/s}$
- Major movement, person moving $\geq 0,9 \text{ m/s}$.



Height	Minor movement		Major movement	
h	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 SNS210 IA.



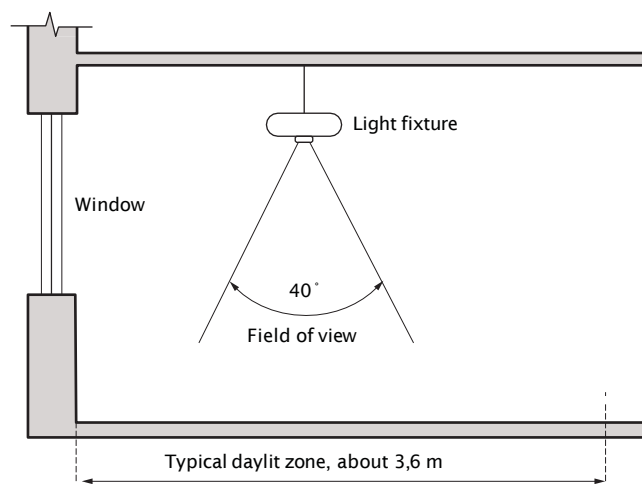
Daylight sensor

The light sensor measures the total amount of light in a circular field of approximately 80% of the PIR detection area. The following aspects should be observed during installation:

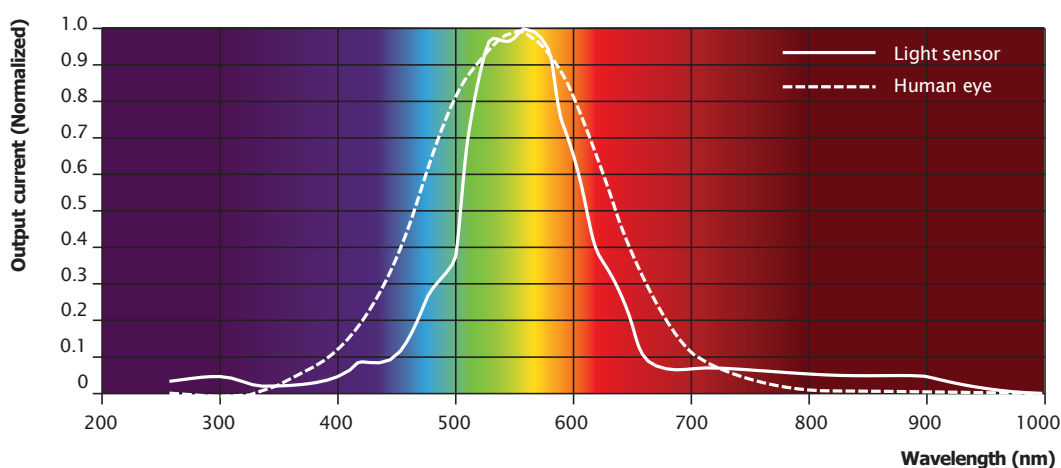
- Minimum distance from the window $\geq 0,6$ m.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

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



Specifications

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

Physical information

Overall dimensions	50 x 19,0 x 31,5 mm
Housing (luminaire hole) (l x w)	44 x 17 mm
Net weight per piece	17g
Volume required inside luminaire (l x w x h)	(50 x 19 x 24 mm)
Color	White
Connectors	WAGO 2060
Input wire cross-section (solid conductor wire)	0,25 to 0,75 mm ² 24 to 18 AWG
Input wire cross-section (stranded wire)	0,3 to 0,5 mm ² 22 to 20 AWG

Electrical information

Input voltage	Powered by SR driver low-voltage interface / NatureConnect link
Current consumption	13 mA
Nominal power consumption	200 mW
Standby power	< 1 W on luminaire level, including driver standby power
Frequency	2.4 GHz

Occupancy sensing

Type	Passive infrared (PIR)
Viewing angle	X = 62°, Y = 84° (See detection pattern)

Daylight sensing

Daylight based control	Default enabled
Viewing angle	40° (half value sensitivity); 2% cut-off point at 75°

Environment and approbation

Operating ambient Temperature Range	0 to 55 °C
Operating humidity	20 to 85% non condensing
Storage temperature	- 25 to 85 °C
Storage humidity	0- 95% non condensing
Ingress protection	IP20
Max case temperature (Tc)	55 °C
Approbations	CE, ENEC, RTTE, EMC
Warranty	5 years warranty for released Philips system combination (sensor and compatible driver). 3 years warranty for sensor only.
Digital interface	Xitanium SR or NatureConnect link

Other

Status indicators	Red, yellow. yellow LED ON: vacancy and sensor is functional; red LED ON: motion is detected
Number of drivers / NatureConnect link per sensor	Drivers: 4 max. NatureConnect link: 1 max.
Maximum distance switch-to-first-luminaire	10 m line of sight
Maximum distance luminaire to luminaire	12 m line of sight



© 2020 Signify Holding. All rights reserved.
Specifications are subject to change without notice.
No representation or warranty as to the accuracy or completeness of the information included herein is given and any liability for any action in reliance thereon is disclaimed. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.



www.philips.com/lighting