



Project:	
Location:	
Cat. No:	
Type:	
Lamps:	Qty:
Notes:	

Philips SpaceWise wireless technology DT, with its integrated wireless occupancy and daylight sensors delivers greater energy savings & lighting zoning flexibility with minimal labor costs than traditional controls. Smart features like granular dimming and dwell time help to achieve deep energy savings target without compromising on occupancy comfort levels.

An intuitive Android app allows up to 40 sensors to be grouped together and makes the overall configuration and commissioning during and after installation fast and easy.

Features

- Occupancy sensing, daylight harvesting and task tuning in one device
- Granular dimming (occupancy sharing)
- Dwell time
- Scene setting
- Configuration of sensor parameters – if desired – using NFC or IR via intuitive Android-based Philips field apps
- Quick task tuning in the field to optimize light and power levels
- Enables auto-off/manual-on and auto-off/partial-on application
- DLC qualified: Listed on the QPL for Networked Lighting Controls

Benefits

- Installation savings – integrated wireless controls with no external components
- Minimal startup and configuration expertise – savings on labor time & effort
- Deep energy savings & code compliance strategies
- Faster ROI with attractive payback periods (varies depending on luminaire choices)

Applications

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

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Product Data

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

Electrical Information	
Input Voltage	Powered by SR driver low-voltage interface
Current Consumption	13mA
Nominal Power Consumption	200mW
Standby Power	< 1 W on luminaire level, including driver standby power
Occupancy Sensing	
Type	Passive infrared (PIR)
Enable/Disable	Default enabled
Occupancy Mode	Auto-on/off, Manual-on/off, Manual-on/auto-off; Red LED indicates occupancy detected
Group Occupancy Sharing	Enabled/disabled (default enabled)
Group Lighting Behavior	Background level, task level
Eco-On Level	5-100%
Hold Time	0.5 - 60 minutes
Viewing Angle	X=72°, Y = 86° (See detection pattern)
Dwell Time	Enabled/disabled (default enabled)
Background Light Level	0-100%
Prolong Time	0 minutes - infinite
Grace Fading	0-25 seconds
Response Time/Fading to Switch On/Off	0.7 seconds
Daylight Sensing	
Enable/Disable	Default enabled
Auto-Calibration	Upon power-up
Viewing Angle	40° (half value sensitivity); 2% cut-off point at 75°
Task Tuning	
Full Light Setting	0-100%
Environment & Approbation	
Operating Ambient Temperature Range	0°C to 55°C
Operating Humidity	0 – 95% 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-SNS100; IC: 20659-SNS100
Certification	California Title 20
Digital Interface	Xitanium SR
Other	
LED Status Indicators	Red, Yellow. Yellow LED on: Vacancy & Sensor is functional; Red LED on: Occupancy detected
Max Distance Switch-to-First-Fixture	33ft line-of-sight
Max Distance Fixture-to-Fixture	40ft line-of-sight
No. Switches per Group	5 max
Field Configuration	via NFC or IR, parameters set via Philips field apps

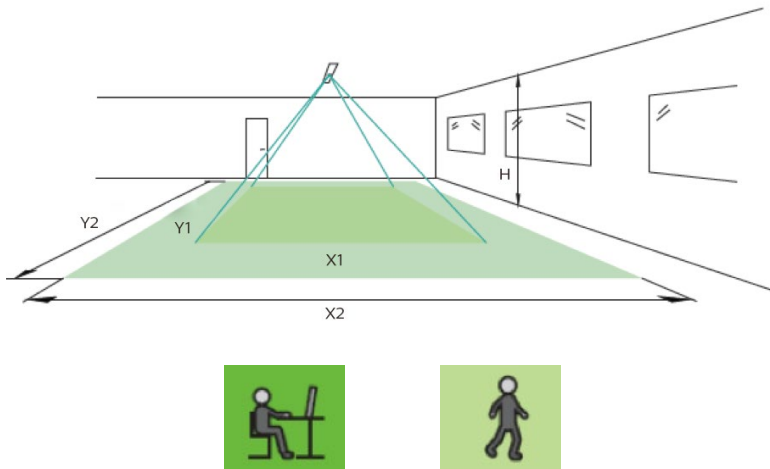
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Occupancy Sensing

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

- Minor movement (person moving $\leq 3.0'$ or 0.9m/s).
- Major movement (person moving $\geq 3.0'$ or 0.9m/s).



Height	Minor Movement		Major Movement	
	Y1	X1	Y2	X2
8'/2.4m	10'/2.9m	9'/2.7m	15'/4.5m	9'/2.9m
10'/3m	12'/3.6m	11'/3.4m	18'/5.4m	12'/3.6m

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

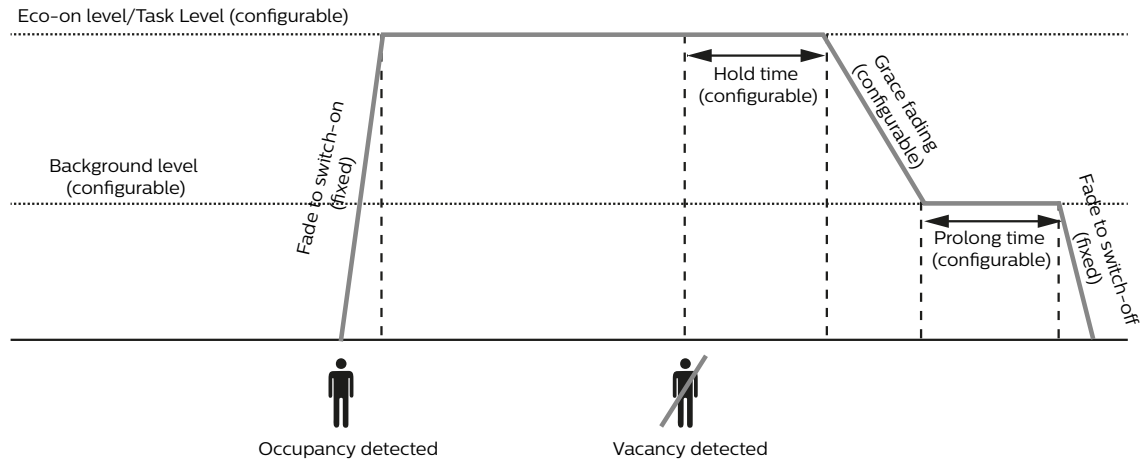
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Occupancy Sensing (continued)

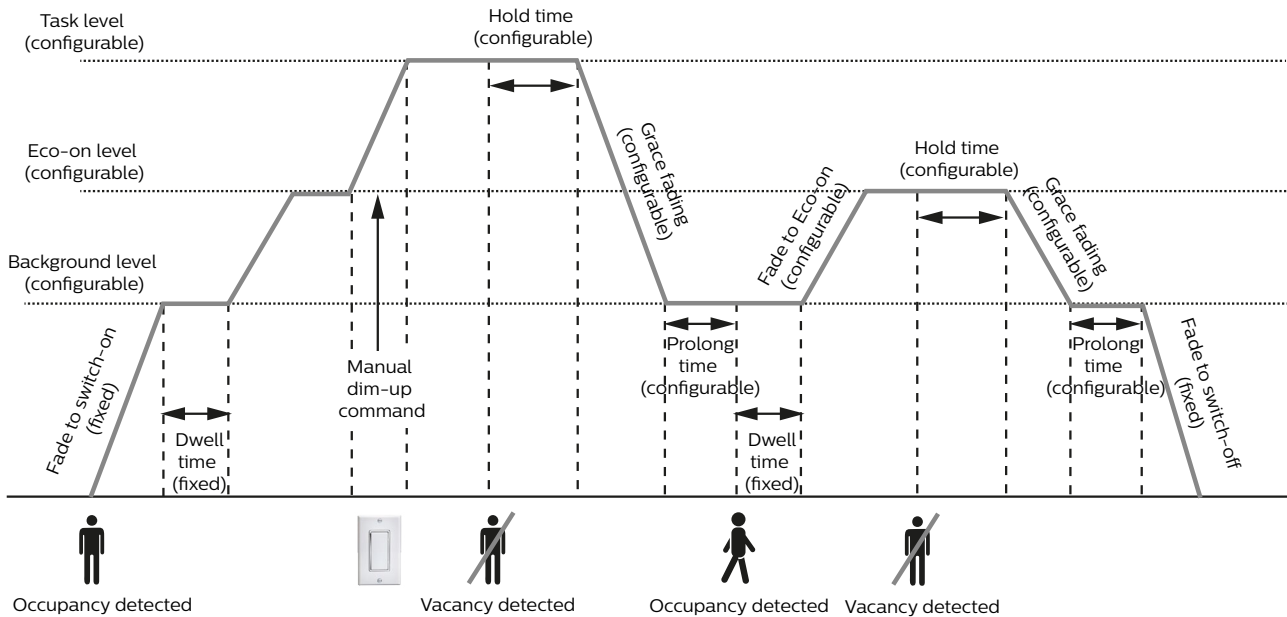
Full-On Sequence (Dwell time disabled)

Eco-On Level = Task Level



Partial-On Sequence with Dwell Time enabled

Eco-On Level < Task Level



If occupant had only passed through/ by the area and not stayed for the configured "dwell time", lights would have been unaffected.

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Daylight Sensor

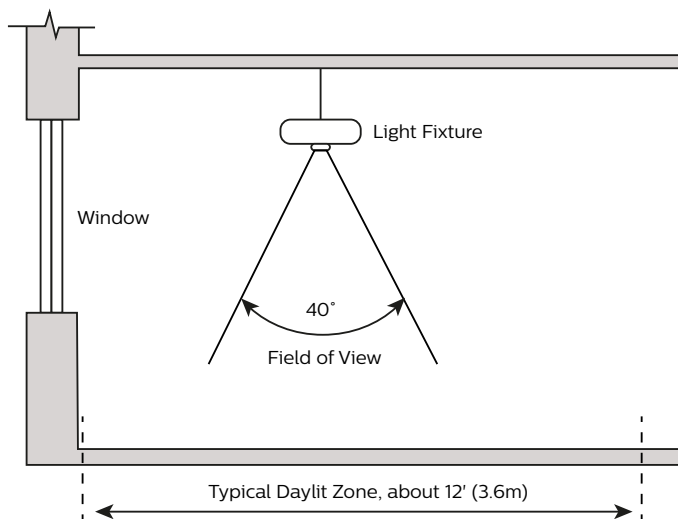
The light sensor measures the total amount of light in a circular field of $\approx 80\%$ of the PIR detection area. The following aspects should be observed during installation:

- Minimum distance from the window $\geq 2.0'/0.6\text{m}$.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

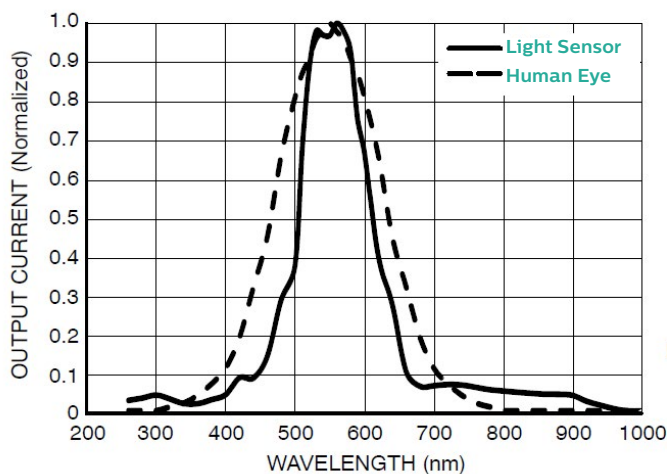
As a guideline the formula $0.72 \times H$ can be used to calculate the minimum distance between the window and sensor whereby H is the height from the bottom of the window to the ceiling.

When daylight sensing is enabled, maximum task level lighting will be 95% of the luminaire labeled value. 100% of labeled value can be achieved via the wall switch.

Photosensor Spatial Response



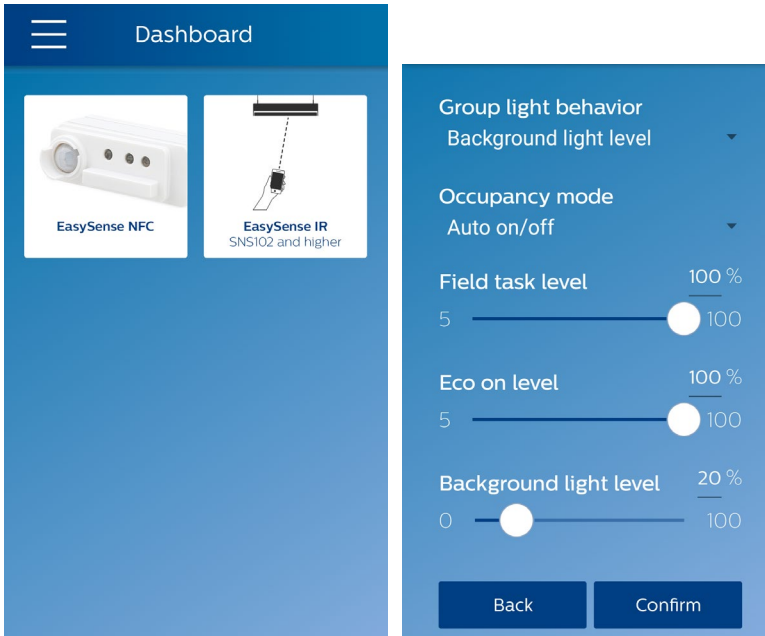
Photosensor Spectral Response



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Philips Field Apps: NFC and IR



Sensor parameters can be configured via Philips field apps. Two versions are available:

1. NFC – This app allows configuring sensor parameters only when you can physically access the sensor with a smartphone.
2. IR – This app allows configuring sensor parameters plus enables grouping to a wireless switch, which can be done with the IR feature of 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.

Refer to the website for registration details:

www.usa.lighting.philips.com/support/support/tools/

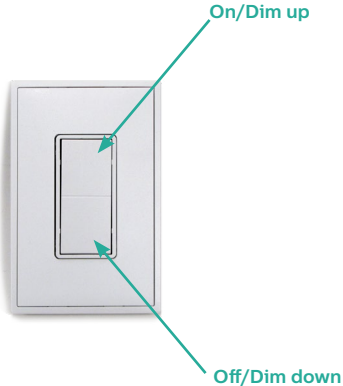
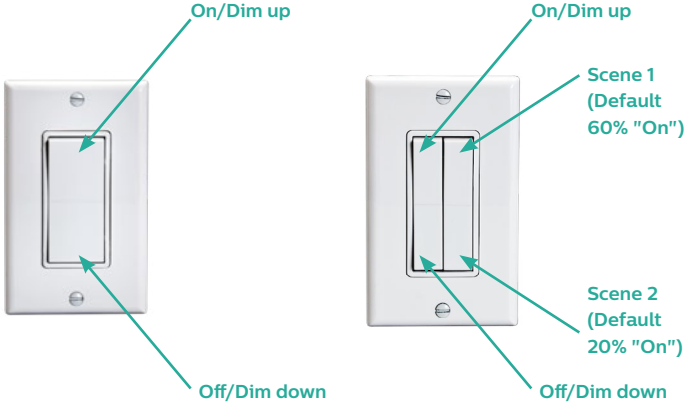
Default Factory Settings

Occupancy Detection	Auto-on, Enabled
Daylight-Based Control	Auto-on, Enabled
LED Indicator	Enabled
Occupancy Mode	Auto-on/off
Group Occupancy Sharing	Enabled
Dwell Time	Enabled
Group Lighting Behavior	Background level
Field Task Tuning	100%
Eco-On Level	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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Compatible Wireless Switches

Manufacturer	Model	Style	Image
Philips	UID8451/10	Single Rocker Self Powered	
Illumra	ZBT-S1AWH	Single Rocker Self Powered	
	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: 40

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