

The top half of the page features a background image of a white ceiling with a recessed lighting fixture. The fixture contains a circular sensor and three small black dots. In the upper left corner, there is a white rounded rectangle with the word "PHILIPS" in blue, and a dark blue rounded rectangle below it with the word "SpaceWise" in white.

PHILIPS

SpaceWise

System Guide

SpaceWise

Wireless technology with dwell time functionality

Philips new SpaceWise wireless technology, with its integrated wireless occupancy and daylight sensors delivers greater energy savings & lighting zoning flexibility with minimal labor costs. 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.

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SpaceWise

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 prevents unnecessary light changes in the open area and therefore improves the comfort level in the area – 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

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	13 mA
Nominal Power Consumption	200 mW
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 to 100%
Hold Time	0.5 to 60 minutes
Viewing Angle	X = 72°, Y = 86° (see detection pattern)
Dwell Time	Enabled/disabled (default enabled)
Background Light Level	0 to 100%
Prolong Time	0 minutes to infinite
Grace Fading	0 to 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 to 100%
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Environment & Approbation

Operating Ambient Temperature Range	0 °C to 55 °C
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Operating Humidity	0 to 95% non condensing
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Storage Temperature	-25 °C to 85 °C
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Storage Humidity	0 to 95% non condensing
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Max Case Temperature (Tcase)	55 °C
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Digital Interface	Xitanium SR
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Other

LED Status Indicators	Red, Yellow. Yellow LED on: Vacancy & Sensor is functional; Red LED on: Occupancy detected
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Max. Distance Switch-to-First-Luminaire	10 m line-of-sight
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Max. Distance Luminaire-to-Luminaire	12 m line-of-sight
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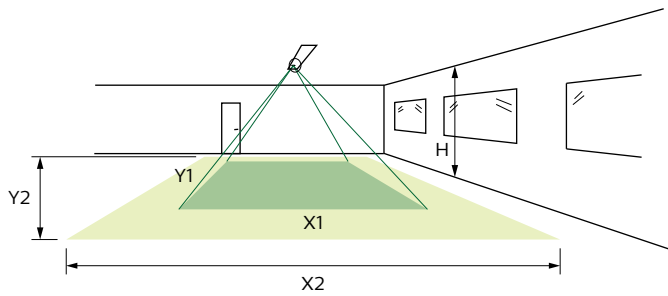
Switches per Group	5 max.
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Field Configuration	via NFC or IR, parameters set via Philips field apps
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Occupancy Sensing

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

- Minor movement
Person moves ≤ 0.9 m/s (≤ 3 ft/s).
- Major movement
Person moves ≥ 0.9 m/s (≥ 3 ft/s).



Minor Movement

Major Movement

Y1	X1	Y2	X2
2.9 m (9.5 ft)	2.7 m (8.9 ft)	4.5 m (14.8 ft)	2.9 m (9.5 ft)
3.6 m (11.8 ft)	3.4 m (11.2 ft)	5.4 m (17.7 ft)	3.6 m (11.8 ft)

Note

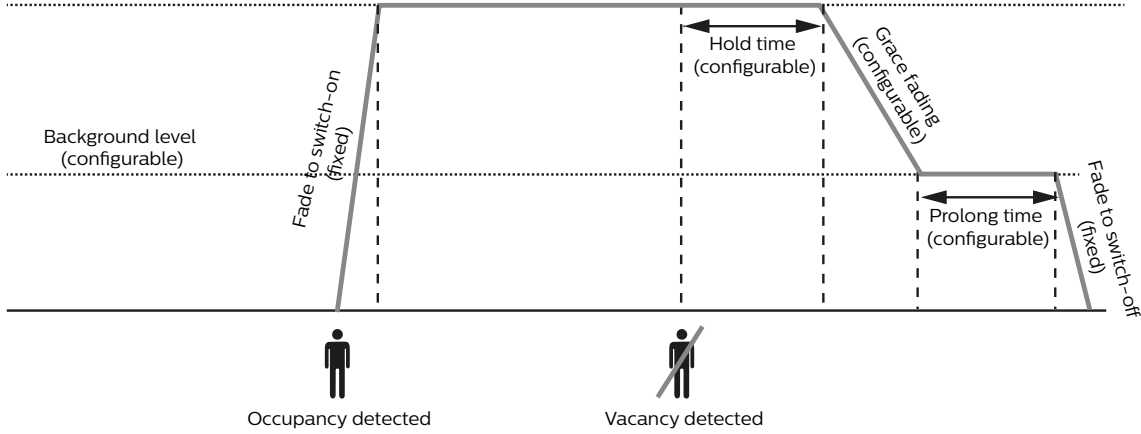
Longer dimension of detection area (Y1, Y2) is parallel to longer dimension of sensor.

Occupancy Sensing (continued)

Full-On Sequence (Dwell time disabled)

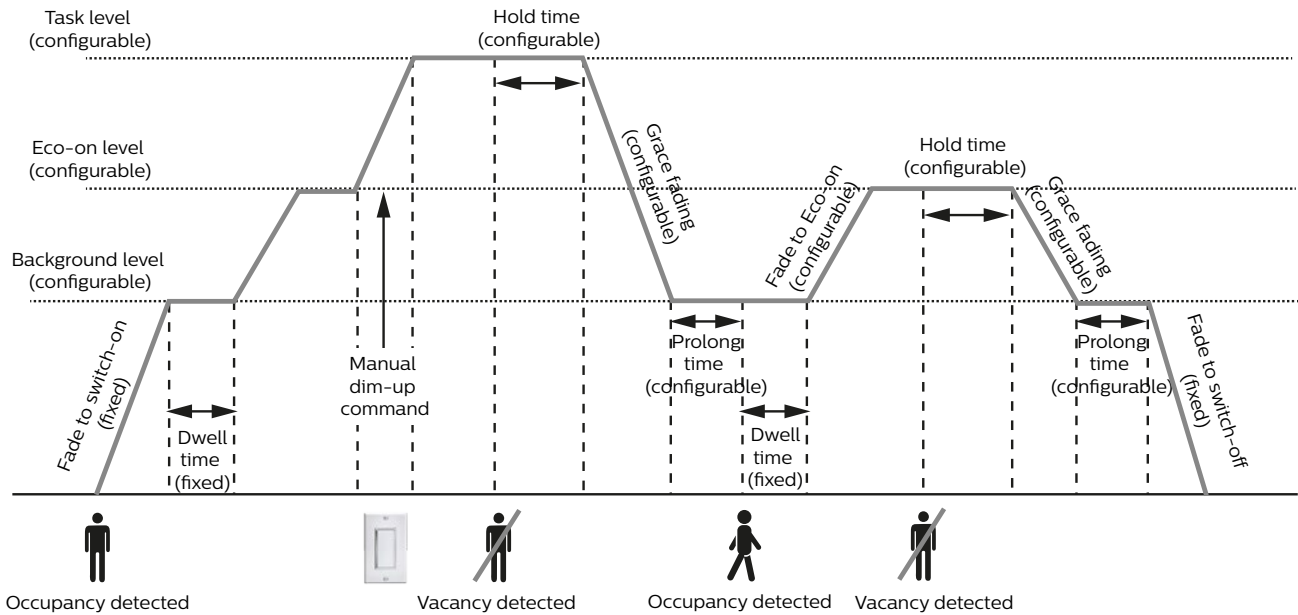
Eco-On Level = Task Level

Eco-on level/Task Level (configurable)



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

Daylight Sensor

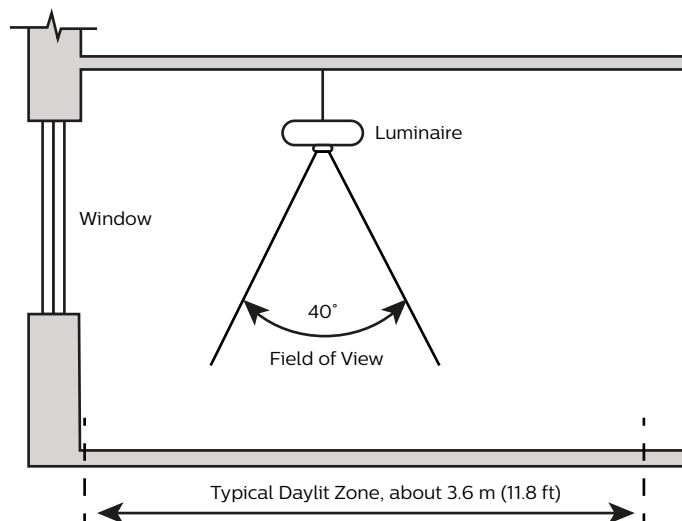
The light sensor measures the total amount of light in a circular field of $\approx 80\%$ of the PIR detection area. The following aspects should be observed during installation:

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

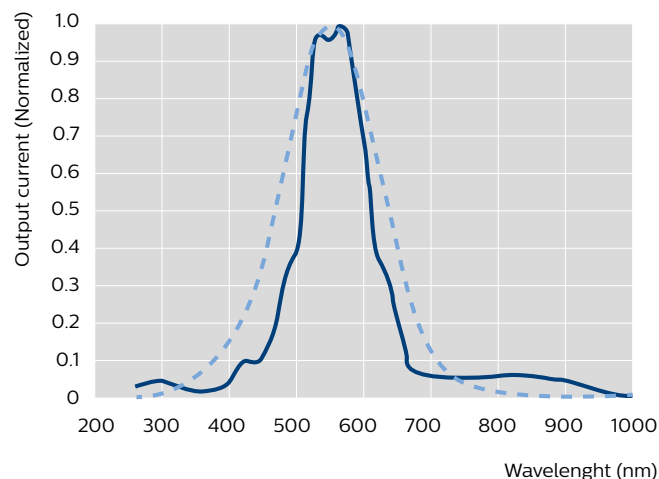
As a guideline the formula $0.72 \times H$ can be used to calculate the minimum distance between the window and sensor whereby H is the height from the bottom of the window to the ceiling.

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.

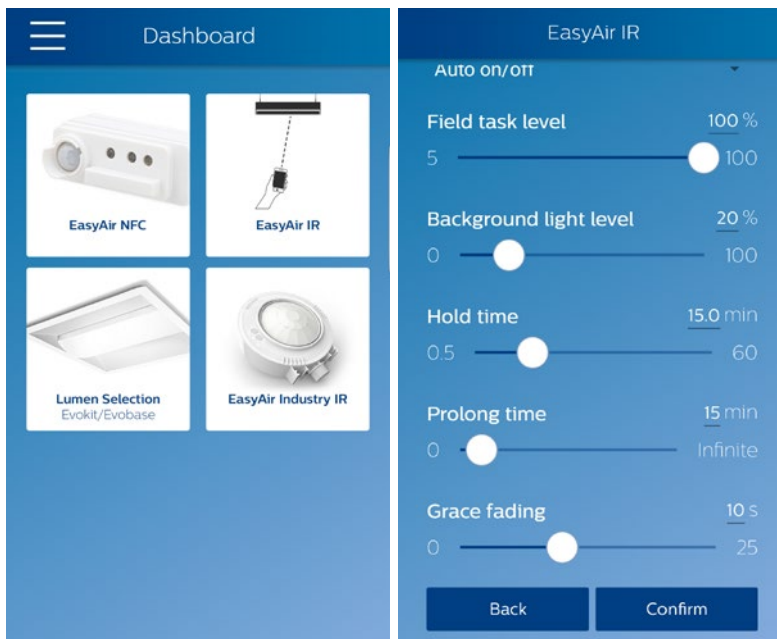
Photosensor Spatial Response



Photosensor Spectral Response



Philips Field Apps: NFC and IR



The sensors are easily configured in the field using Philips Field Apps, the user-friendly Android smartphone app. Two versions are available:


- NFC – This app allows configuring sensor parameters only when you can physically access the sensor with a smartphone.
- 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.

The Philips Field Apps can be downloaded from the Google Play store. First time user needs to accept Conditions of use and then sign in with username and password, which can be requested at <https://www.componentcloud.philips.com/appregistration/>. Sign in is only required once per installation of the App. **To have a successful sign in, please make sure that the phone has an internet connection.**

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

Compatible Wireless Switches

Manufacturer	Model	Style	Image
Philips	UID8450/10	Zigbee Green Power Switch Dim 2B	
Philips	UID8460/10	Zigbee Green Power Switch Scene Recall 4B	