



The image shows a Philips EcoSet Wireless Sensors product box on the left and a white, cylindrical sensor unit on the right. The box is white with a green curved bottom section. The Philips logo is in blue at the top, and 'EcoSet Wireless Sensors' is written in white on the green section. The sensor unit is a small, white, cylindrical device with a black cable extending from the top. It has two small circular sensors on its base.

PHILIPS

EcoSet

Wireless Sensors



Specification Sheet

EcoSet Basic Control

SEG161 S MW IP65 Wireless WH AC

Philips EcoSet wireless occupancy sensors, which are EcoSet wireless solution ready. The 2.4GHz BLE Mesh technology enables **Simple** and **Reliable** communication towards the lights in your space. It triggers automatic responses to turn on or dim the lights according to occupancy detection.

SEG161 MW Wireless WH AC

Product Features

Occupancy Detection

- MicroWave technology to detect occupancy accurately
- Minimum false trigger

Daylight Control

- Daylight step-dimming available

Installation

- AC powered
- Surface mounting for IP65 version

Environment

- ROHS compliant
- No Mercury
- Low Carbon Footprint

Connectivity

- 2.4 GHz BLE mesh networking technology
- Reliable and secure wireless communication, control power range 3-15 m
- Easy commissioning
- Operate with Philips EcoSet solution

Control Functionality

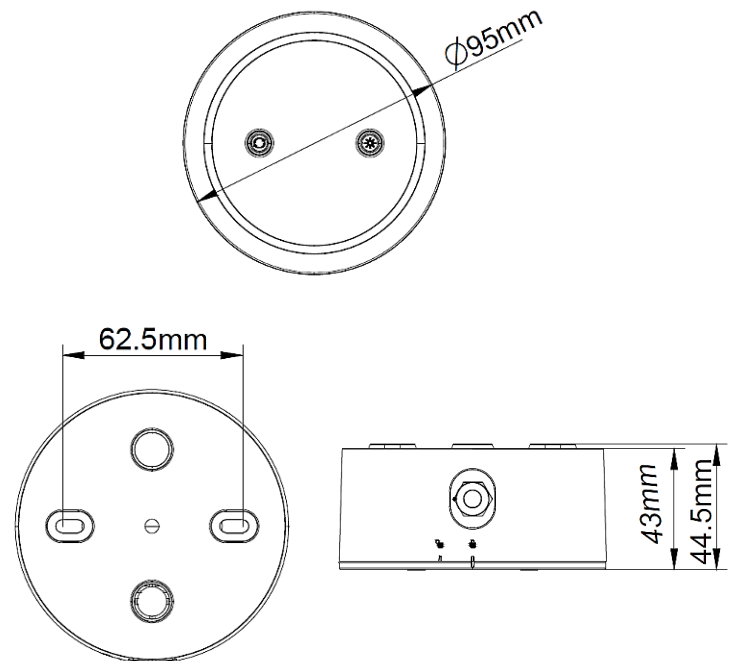
- Automatic light control based on occupancy & daylight detection.
- Adjustable sensor parameters for personalized lighting behaviors.

Reliability

- Reliable operation between -20 °C and 50 °C ambient temperature.

Dimensional drawings

Surface mounting (IP65)



SEG161 MW Wireless WH AC

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

Occupancy sensing

Type	Microwave sensing
Hold time	3(default)/10/15/30mins
Installation height	2.5 – 5m
Detection range (@3m installation height) – IP65 version	=>4m@0.5-1m/s people and car =>2m@2m/s car =>1.5m@3m/s car

Daylight sensing

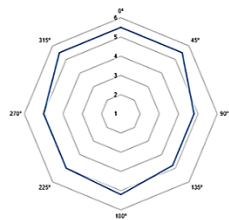
Daylight based control	Default disabled
Daylight dimming level	20%/30%/50%(default)/70%

Occupancy detection range diagram (for IP65 version)

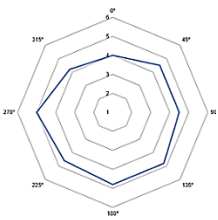
* Testing condition:

1) 3m installation height; 2) 25°C room temperature

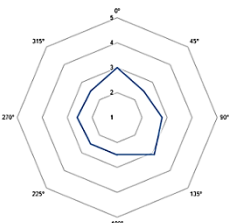
High Sensitivity mode (setting thru dip switch)



0.5m/s @ people & car



1m/s @ people & car



2m/s @ car



3m/s @ car

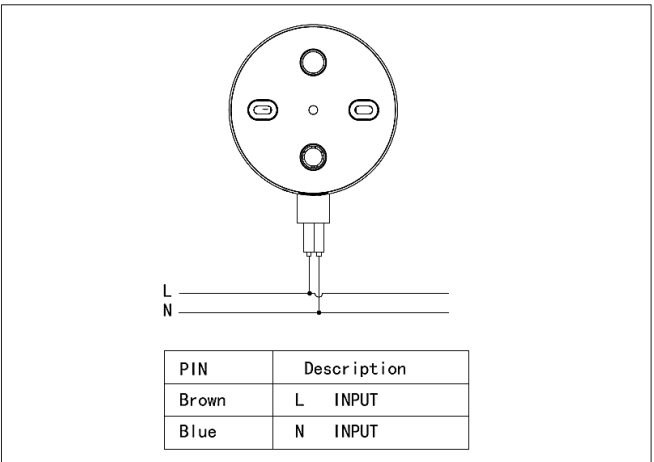
Low Sensitivity mode (setting thru dip switch)



0.5-1m/s @ people & car

Electrical installation

Installation (cable wiring)



Warnings



The Sensor should not be used in the following situations:

- Environmental conditions other than in a normal fierce environment (large electromagnetic radiation, humidity).
- It should not be mounted in direct line of air flow like in front of Air Conditioning vent.
- Sensors should be avoided from being installed on a metal plane, as the metal plane will reflect the radiation from the AC part of the sensor, causing greater power frequency radiation interference to the microwave radar inside the sensor, resulting in false trigger of the sensor.

Dip switch setting



		1	2	3	4	5	6	7	8
保持时间 Hold time	3min±18s (default)	●	●	/	/	/	/	/	/
	10min±1min	●	▲	/	/	/	/	/	/
	15min±1.5min	▲	●	/	/	/	/	/	/
	30min±3min	▲	▲	/	/	/	/	/	/
背景光亮度 Bias light lux	20%±2% (default)	/	/	●	●	/	/	/	/
	30%±3%	/	/	●	▲	/	/	/	/
	50%±5%	/	/	▲	●	/	/	/	/
	70%±7%	/	/	▲	▲	/	/	/	/
发射功率 Transmitted Power	最高 max high (default)	/	/	/	/	●	●	/	/
	高 high	/	/	/	/	●	▲	/	/
	中 middle	/	/	/	/	▲	●	/	/
DEMO 模式 DEMO Mode	低 low	/	/	/	/	▲	▲	/	/
	AUTO (default)	/	/	/	/	/	/	●	/
	DEMO	/	/	/	/	/	/	/	▲
灵敏度 Sensitivity	高 high (default)	/	/	/	/	/	/	/	●
	低 Low	/	/	/	/	/	/	/	▲

▲ = ON, ● = OFF, / = ON/OFF

Specifications

General

Net weight	169g
Material	PC
Storage temperature	-35 to +85 °C
Operational temperature	-35 to +50 °C
Storage humidity	0% to 95% no condensation
Operational humidity	0% to 95% no condensation
Protection Class	IP65
IK	IK05 (no impact on function)

** IP20 version to be released in Q2'24.

Technical data

Mains connection voltage	220 – 240 Vac; 50 / 60Hz
Mains surge immunity	1kV / 2kV
Stand-by power consumption	< 1.5W
Normal power consumption	< 1.5W
RF power range open-air	3-15 m
Control method	BLE Mesh
System compatibility	EcoSet wireless
Approbation	CE, CB, RED

* All specifications are typical unless otherwise specified.

Packaging Data

Type	Box dimensions (mm)	Qty	Material	Weight (Kg)	
				net	gross
SEG161 Unit Box	105x65x105	1	Cardboard	0.17	0.2
SEG161 Outer Box	340x225x125	10	Cardboard	2.04	2.4

Ordering Data

Type	Qty	Ordering number
SEG161 S MW IP65 Wireless WH AC	In Multiples of Outer Box	9114 0I53 4342

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