

# CW178 Series

## Ceiling Mounted & Wall Mounted

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PIR Sensor







## Introduction

This CW178 Series ceiling lamp boasts a smooth edge and is both IP65 waterproof and equipped with a wide lighting surface. It has an adjustable CCT version and a PIR sensor version to meet various application demands. Additionally, it features a screwless surface and a rotatable lamp cover for easy installation. Both edge cable entry and back cable entry are available, allowing for quick installation and cost savings on labour.

## Features

- Rotatable install for lamp cover, both edge cable entry and back cable entry available.
- IP65 waterproof design.
- Interchangeable CCT (3000K+4000K+5700K) with slide switch.
- Installation way: Wall mounted, surface mounted.
- Internal flicker free driver which is easy for replacement and maintenance.
- PIR sensor.

## Application Areas

It is designed for general lighting applications in office, supermarket, shop, school, hotel, etc. It is also widely used for public areas, such as stairway, lobby, reception, corridors etc.





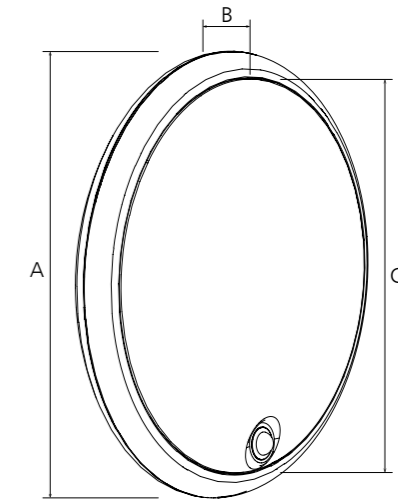


## Technical Data Sheet

Code No.	CW178-12-18W-SP	CW178-12-25W-SP		
Dimension(mm)	Ø300*70			
Cutout (mm)	-			
Watt(W)	18W	25W		
Rated Input Voltage(V)	AC100-240V			
Input Voltage(V)	AC85-265V			
LED Module Input	-			
Light Source	SMD2835			
SDCM	<6			
CCT(K)	1-CCT:3000K/4000K/5000K/5700K 3-CCT: 3000K+4000K+5700K			
CCT Selection DIP Switch	YES			
Luminous Flux (lm) ±5%	Non-DIM	1-CCT	1830-2020	2470-2650
	DIM		-	
	Non-DIM	3-CCT	1850-2030	2450-2640
	DIM		-	
CRI	80, 90			
Beam Angle (°)	120°			
UGR	-			
LED Driver	Built-in			
Dimming Option	-			
Sensor	YES (PIR Sensor)			
Emergency Kits	NO			
Electrical Class	Class II			
Ingress Protection (IP Rating)	IP65			
Impact Resistance (IK Rating)	IK06			
Product Finishing(Base)	White RAL 9016			
Materials of Optics	PC			
Materials of Housing	PC			
Lifetime (hr)	50,000hr			
Glow wire test (°C)	750°C			
Operating Temp. (°C)	0°C~25°C			
Storage Temp. (°C)	-20°C~65°C			
Installation	Wall Mount			

## Measurement

Code	Dimension(mm)			Size(mm)
	A	B	C	
CW178-12-18W-SP CW178-12-25W-SP	Ø300	70	Ø268	Ø300*70



## Driver Datasheet (sensor)

Total load wattage		18W	25W
Output	Output Voltage range	DC60-75V	
	Rated output current	220mA	320mA
	Line Regulation	±5%	
	Setup, Rise Time	<0.5S@230V	
	Flickering Index	<3% (NO RISK)	
Input	Input Voltage	AC85-265V	
	Rated Input Voltage(V)	AC100-240V	
	Frequency	50/60HZ	
	Input Current	≤0.24A	≤0.33A
	Rated Input Current	≤0.2A	≤0.28A
	Power Factor	0.9	
	THD	<20% @230V	
	Efficiency	≥84%	
	No load wattage	<0.7W	
Protection	Short circuit protection	PASS	
	Over voltage protection	PASS	
	Over temperature protection	PASS	
Safety & EMC	Withstand voltage	-	
	Isolation Resistance	-	
	Surge	IEC/EN61000-4-5( P<25W; L-N:500V)	IEC/EN61000-4-5( P≥25W; L-N:1000V)
	EMC Emission	EN55015, EN61000-3-2	
EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547		

## Driver Datasheet (Sensor)

Sensor datasheet	
Operating Voltage	DC4-22V
Power consumption	0.5Wmax
Microwave frequency	-
Transmission power	-
Detection angle	90°
Detection Area	2-3m
Hold time	30S±5S
Daylight sensor	5~35 LUX
Stand-by DIM Level	-
Stand-by Period	-
Dimming Range	-
Microwave ON/OFF function	-
Installation Height	Recommended Installation Height: Wall mounted height 1.8m.
Minimum mounting distance	Recommended mounting distance should be more than 2m
Operating temperature(°C)	0°C - 25°C

## Sensor Setting



### Detection area:

Notice 1: The distance test is carried out under Ta25°C, 1.8 meters wall mounting installation height. The test result is based on the movement along the tangential direction of the sensor.

Notice 2: Infrared sensor will be affected by temperature. Too high or too low temperature may affect the detect distance or even cause failure to sensor.

### Hold time:

Notice 1: The hold time counting should be started after the sensor is powered on and initialized.

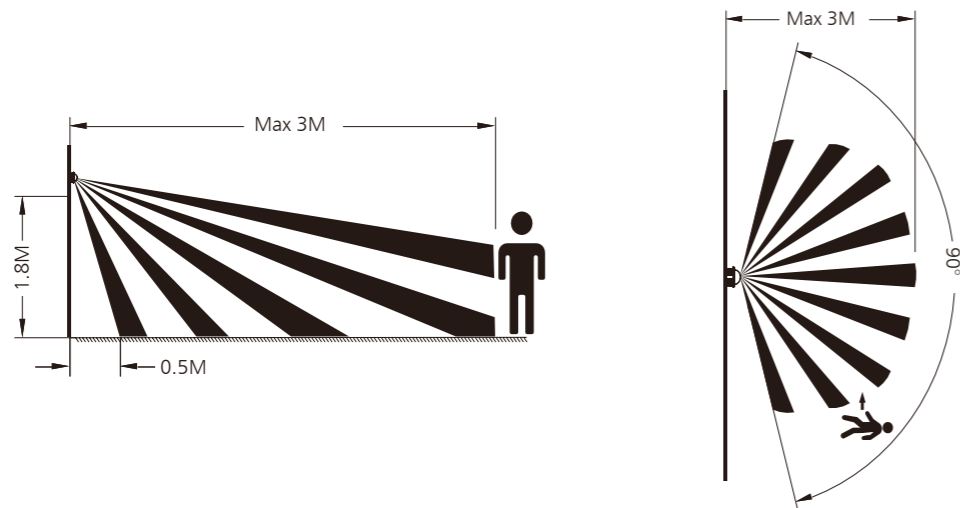
### Daylight sensor:

Notice 1: The light threshold may cause a large deviation in different lamps.

### Factory settings

Daylight Sensor	Hold Time	Detection Area
30LUX	30S	100%

## Detection Range Diagram



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