

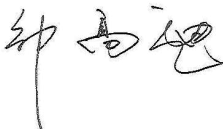



# SPECIFICATION

Product Name: Sensor DIM LED Driver

Model No.: MLC65C-P4

Issue Date: April 11, 2017

CUSTOMER APPROVED

PRODUCT DIRECTOR APPROVED	SALES CHECKED	R&D CHECKED	PREPARED
			

## 1. Features



- Ultra-slim design for Tri-proof LED light
- Unique design with mini sensor detector makes the drivers suitable to fix within luminaries
- DIP setting allows the user easy to adjust sensor parameters
- 3 years warranty

## 2. Parameter

<b>Input</b>	Operating Voltage Range	198-264V AC, 50Hz/60Hz
	Input Current	0.38A MAX
	Rated Voltage	220-240V AC, 50Hz/60Hz
	load Power	≥0.90 (230V full load)
	Stand-by Power	≤1W
	Working efficiency	87% Max.@230V AC(full load)
	Wiring method	Bullet terminal, wire diameter:0.75-1.5mm <sup>2</sup>
<b>Output</b>	Working Model	Constant current
	Type of Load	LED
	No-load output voltage	65VDC Max
	Full load power	66W Max
	Load output voltage range	35-55V DC
	Load output current	600mA/925mA/1050mA/1200mA
	Wiring method	Press terminal, wire diameter:0.75-1.5mm <sup>2</sup>
<b>Sensor Parameters</b>	Operating Frequency	5.8 GHz ±75 MHz , ISM Band.
	Transmitting power	1mW Max.
	Hold time	5S/90S/5min/25min
	Stand-by DIM Level	0%/10%/ 25%/ 50%
	Stand-by Period	1min/ 5min/ 25min/ +∞
	Detection Area	25%/ 50%/ 75%/ 100%
	Daylight Sensor	10Lux/ 30Lux/ 50Lux/ 100Lux/Disable
	Daylight on/off	N/A
	Detecting Radius	4-6m (mounting height 3m) (see note2)
	Mounting Height	6m Max.
	Detecting Angle	150° (Wall mounted), 360° (Ceiling mounted)
<b>Wireless</b>	Operating Frequency	N/A

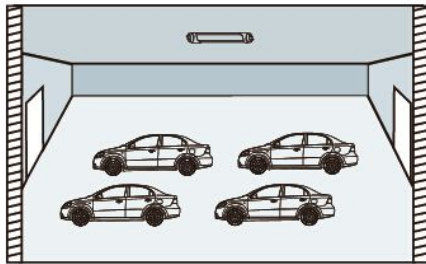
<b>Module</b>	Transmitting power	N/A
	Transmitting distance	N/A
	Modulation mode	N/A
	Number of coding	N/A
<b>Operating Environment</b>	Operating Temperature	-25℃...+50℃
	Storage Temperature/Humidity	-40℃...+80℃ (Humidity: 85% Non-condensing)
<b>Certificate Standards</b>	Safety standards	EN61347-1, EN61347-2-13
	EMC standards	EN55015, EN61547, EN61000-3-2, EN61000-3-3
	Environmental Requirement	Compliant to RoHS
	Certificate	TUV, CE
	IP Rating	IP20
	Protection Class	Class II
	Installation	Built-in Installation
	Dimension	Main Part: 212*42*30mm Sensor Head: 60*20*13mm
	Net Weight	330g
	Package	Bubble bag+Clapboard + Carton(K=A)
	Lifetime	3 years warranty @Ta 230V full load

**Note**

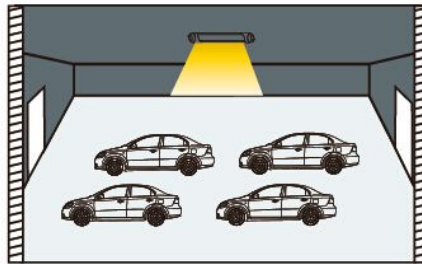
1. "N/A" means not available.
2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

## 2. Function

ON/OFF Function(Dimming Level set at '0%')



- ① With sufficient ambient light, the light will not be switched on even if with motion signal.

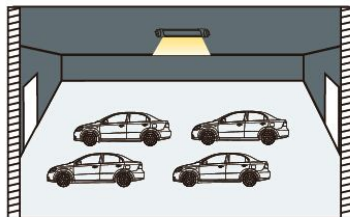


- ② With insufficient ambient light, the sensor switches on the light when motion is detected.

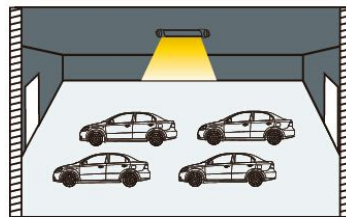


- ③ After elapse of hold time, the sensor switches off the light when no motion is detected.

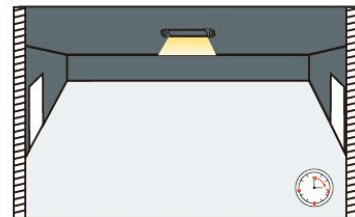
2-step dimming function(stand-by period set at '+∞')



- ① If there is no motion detected, the light will be remained at a low light level all the time.

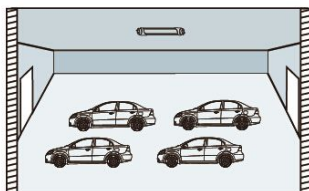


- ② When motion is detected, the sensor will switch on the light to 100% brightness

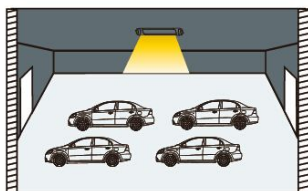


- ③ After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

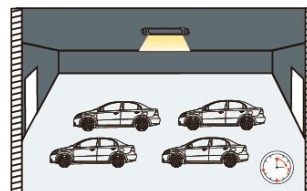
3-step dimming function(Stand-by period set at '1min/5min/25min'; Dimming Level set at '10% - 25% - 50%')



- ① With sufficient ambient light, the light will not be switched on even if with motion signal.



- ② With insufficient ambient light, the sensor switches on the light when motion is detected.

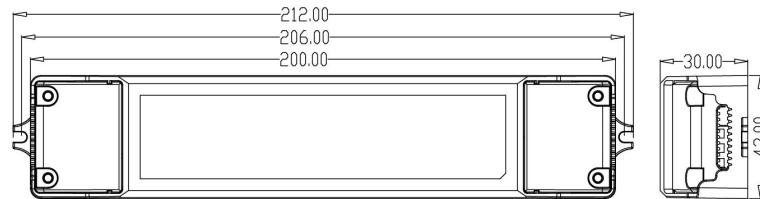


- ③ After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.

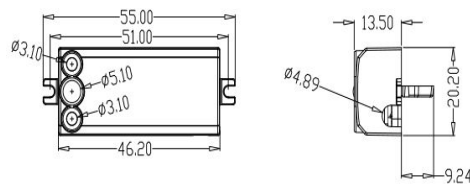


- ④ After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

## 4. Dimension (mm)

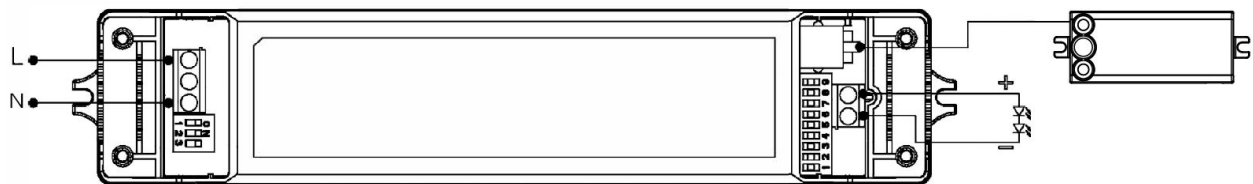


Main Part



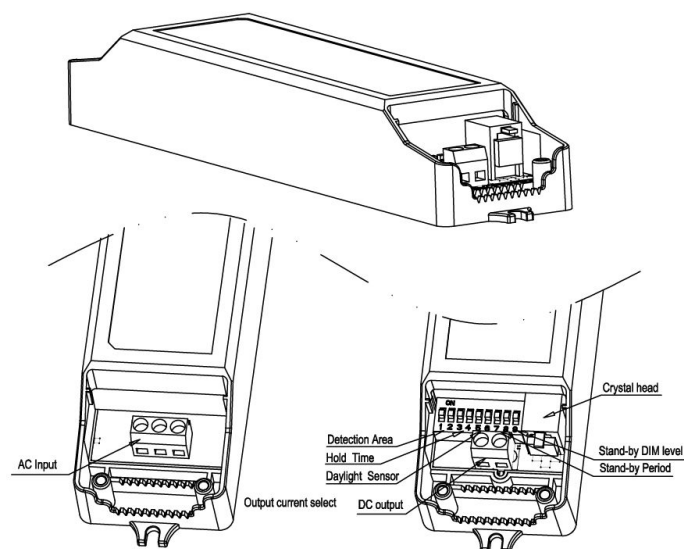
Sensor Head

## 5. Wiring



\*The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

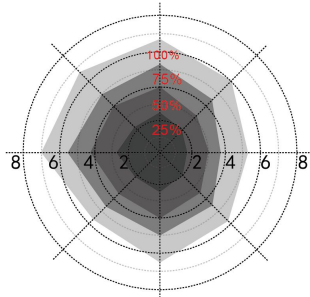
## 6. Structure



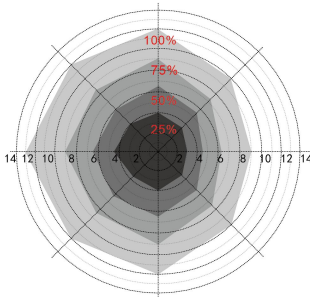
## 7. Radiation Pattern

Ceiling mounting

Ceiling mounted height: 3m  
Sensitivity: 100%/75%/50%/25%

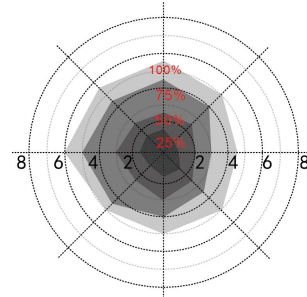


Normal moving (Speed:1m/s)

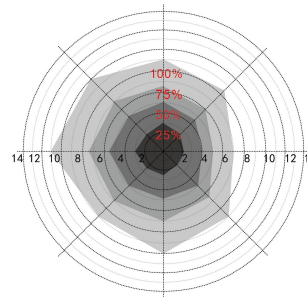


Slow moving (Speed 0.3m/s)

Ceiling mounted height: 6m  
Sensitivity: 100%/75%/50%/25%



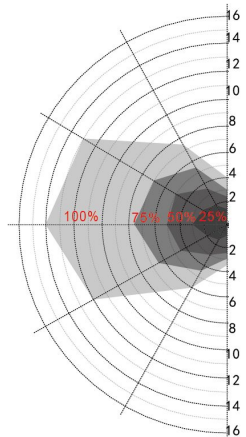
Normal moving (Speed:1m/s)



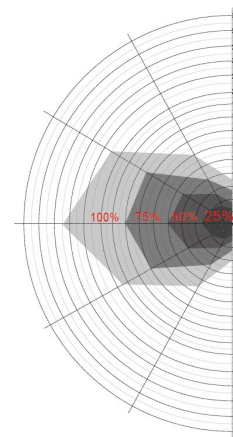
Slow moving (Speed: 0.3m/s)

Wall mounting:

Horizon mounted height: 1.5m  
Sensitivity: 100%/75%/50%/25%



Normal moving (Speed: 1m/s)



Slow moving (Speed 0.3m/s)

## 8. DIP Switch Setting

### Detection Area (Sensitivity)

	1	2	
I	ON	ON	100%
II	ON	-	75%
III	-	ON	50%
IV	-	-	25%

### Hold Time

	3	4	
I	ON	ON	5S
II	ON	-	90S
III	-	ON	5min
IV	-	-	25min

### Stand-by DIM Level

	5	6	
I	ON	ON	0%
II	ON	-	10%
III	-	ON	25%
IV	-	-	50%

## Daylight Sensor

	1	2	3	
I	ON	ON	ON	10lux
II	ON	ON	-	30lux
III	ON	-	ON	50lux
IV	-	ON	ON	100lux
V	-	-	-	Disable*

\*Disable means the daylight sensor does not work. The sensor will turn on light once motion is detected regardless of ambient light level.

## Stand-by Period

	4	5	
I	ON	ON	1min
II	ON	-	5min
III	-	ON	25min
IV	-	-	+∞

## Output Current Setting

	1	2	3
1200mA	ON	ON	ON
1050mA	ON	ON	-
925mA	ON	-	-
600mA	-	-	-



## 9. Initialization

1) On/Off function /3-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the sensor is not able to detect movement.

2) 2-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it dims the light to a low light level (set by stand-by dim level). During the initialization, the sensor is not able to detect movement.

## 10. Factory Setting

Detection area: 100%, Hold Time: 5min, Stand-by DIM level:10%, Daylight Sensor: Disable\*, Stand-by Period:+∞

## 11. Application Notice

Be sure to power off before adjusting DIP switch setting.

## 12. Version Change

Version	Date	Description
A0	April 11 , 2017	Released new product