

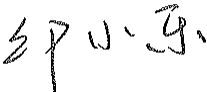

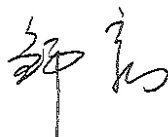

SPECIFICATION

Product Name: Sensor DIM LED Driver

Model No.: MLC65C-P8

Issue Date: April 18, 2019

CUSTOMER APPROVED

PRODUCT DIRECTOR APPROVED	SALES CHECKED	R&D CHECKED	PREPARED
			

Shenzhen Merrytek Technology Co.,Ltd

Add: 2nd and 3rd floor, NO.3 Building, 380 Xiangshan Avenue, Luotian, Yanluo, Baoan, Shenzhen, 518127, China

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Fax: +86 (0)755-2786 3012

Website: www.merrytek.com

1. Features



- Integrated motion sensor & power supply, convenient installation and simple wiring
- Sensor parameters can be adjusted by DIP SWITCH
- Multi-current optional by DIP switch
- With MINI sensor head, suitable for more fixture installation

2. Parameter

Input	Operating Voltage	198-264V AC, 50Hz
	Input Current	≤0.36A (230VAC@reload)
	Rated Voltage	220-240V AC, 50Hz
	PF	≥0.90 (230V full load)
	Stand-by Power	≤1W
	Working efficiency	87% Max. (230V Max load)
Output	Working Mode	Constant current
	Type of Load	LED
	No-load output voltage	60V DC Max
	Flicker standard	Flicker
	Output voltage range	35-52V DC
	Output current	600mA/650mA/900mA/1050mA
	Current accuracy	±5%
Sensor Parameters	Operating Frequency	5.8 GHz ±75 MHz , ISM Band.
	Transmitting power	0.5mW Max.
	Hold time	5S/90S/ 5min/ 25min
	Stand-by DIM Level	10%/ 25%
	Stand-by Period	1S/ 5min/ 25min/ +∞
	Detection Area	25%/ 50%/ 75%/100%
	Daylight Sensor	50Lux/Disable
	Detecting Radius	6-8m (mounting height 3m) (see note2)
	Mounting Height	6m Max.
	Detecting Angle	150° (Wall mounted), 360° (Ceiling mounted)
Abnormal Protection Requirements	No load protection	Yes
	Output short circuit protection	Yes
Operating Environment	Operating Temperature	-25℃ ...+50℃
	Maximum shell temperature	85℃

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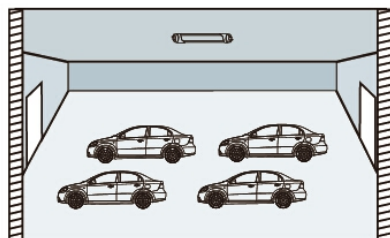
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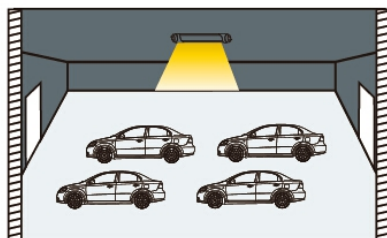
	(Tc)	
	Storage Temperature&Humidity	-40℃...+80℃(Humidity: 85% Non-condensing)
Certificate Standards	Safety standards	EN61347-1, EN61347-2-13
	EMC standards	EN55015, EN61547, EN61000-3-2, EN61000-3-3
	Environment Requirement	Compliant to RoHS
	Certificate	CE SAA (Pendy)
	Insulation Resistance	3750Vac 5mA 60S (input "L N" to output "LED+ LED-") 1500Vac 5mA 60S (input "L N" vs PE) 500Vac 5mA 60S (input PE to output "LED+ LED-,")
	Input/ Output (terminal/lead) Specifications	Wire diameter of shrapnel terminal: 0.75-1.5mm ²
	IP Rating	IP20
	Protection Class	Class I
	Installation	Built-in installation
	Dimension	Main Part: 212L*42W*30H mm Sensor Head: 57.5L*26W*16H mm
	Net Weight	311.3g
	Package	PE bag+Clapboard + Carton(K=K)
	Lifetime	30,000h @Ta 230V full load
<p>Note</p> <p>1. "N/A" means not available.</p> <p>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.</p>		

2. Function

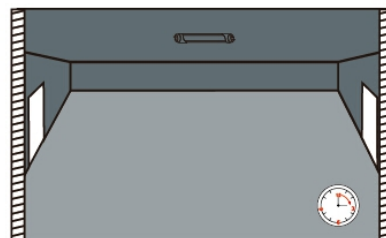
1) On/OFF Function(Stand-by period set at '1S')



- 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.

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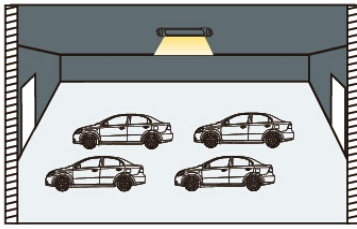
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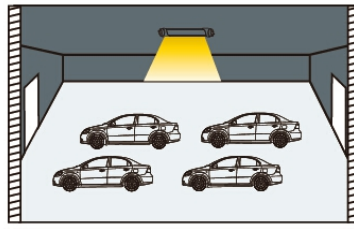
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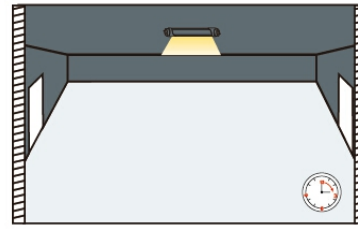
2) 2-step dimming function(stand-by period set at“+∞”)



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

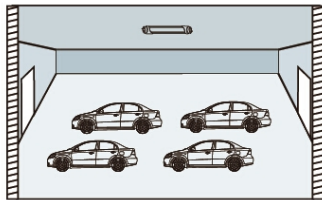


② When motion is detected, the sensor will switch on the light to 100% brightness

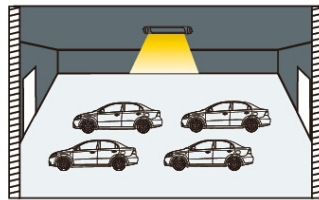


③ After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

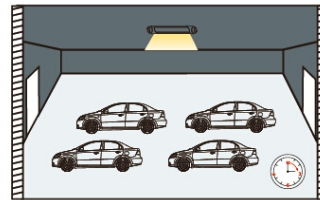
3) 3-step dimming function(Stand-by period set at ‘5min/25min’)



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.

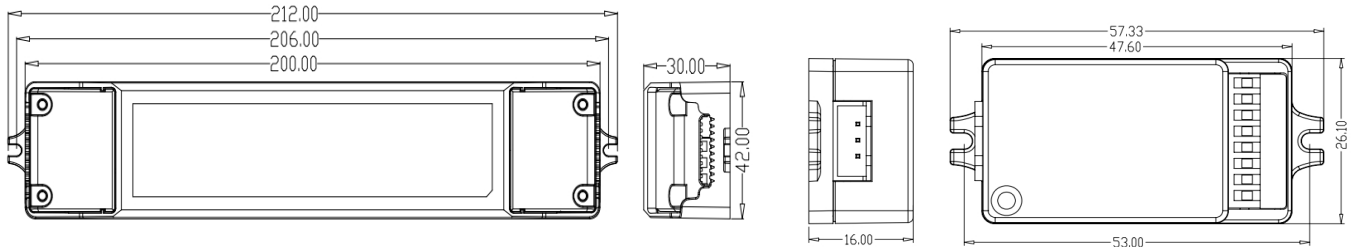


③ After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.

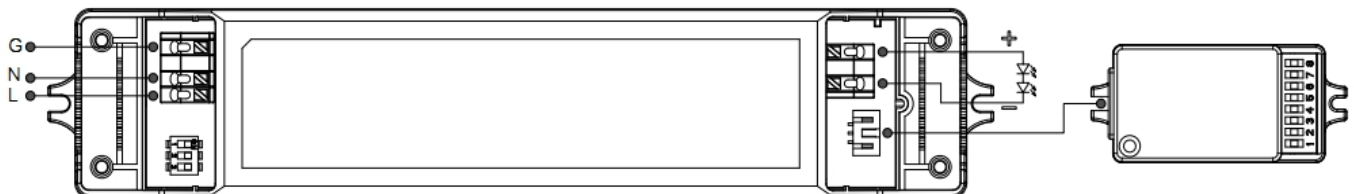


④ After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

4. Dimension (mm)



5. Wiring



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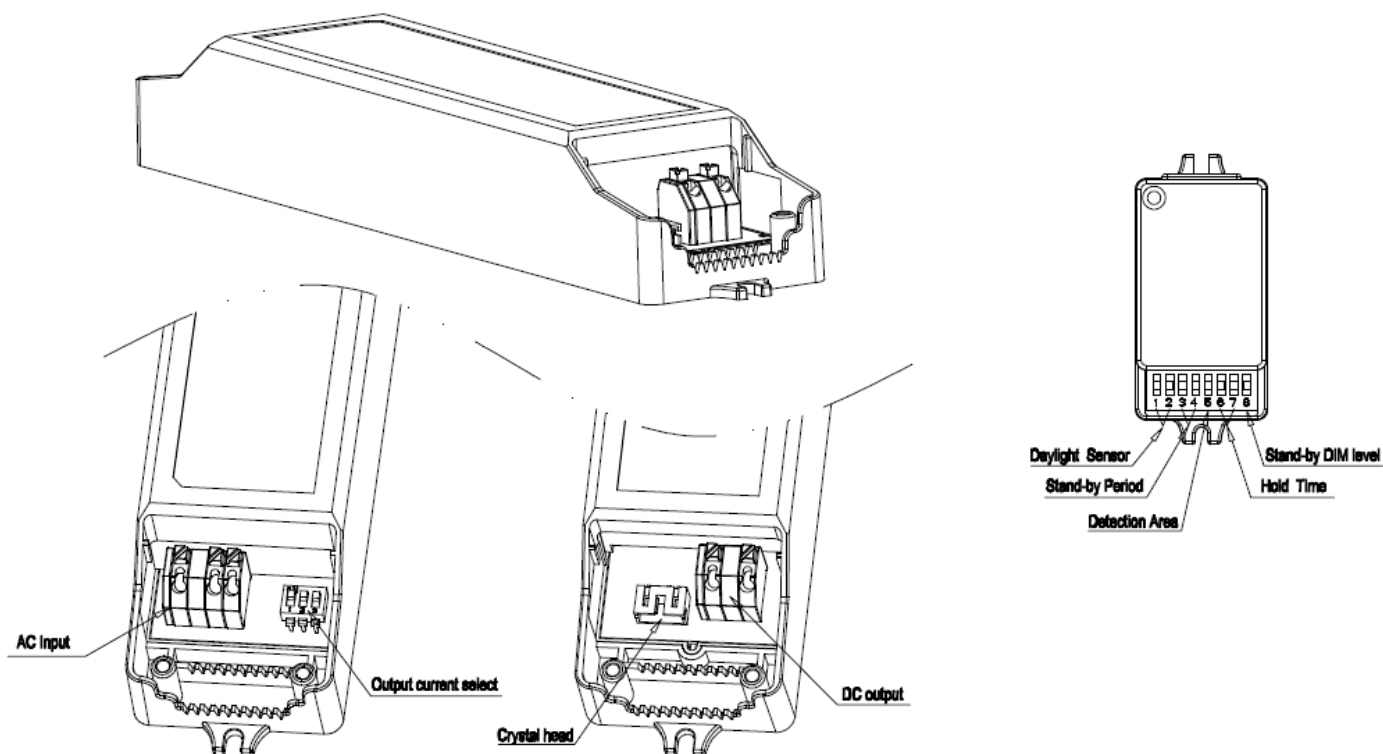
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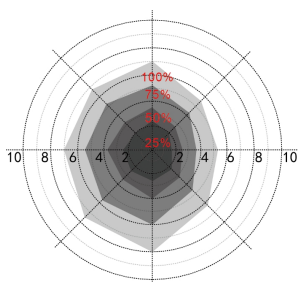
6. Structure



7. Detection Pattern

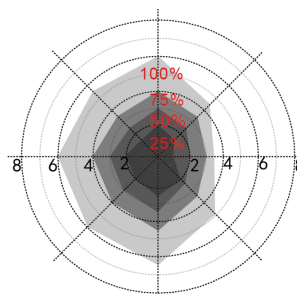
1. Ceiling mounting

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

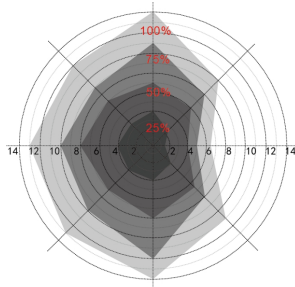


Normal moving (Speed:1m/s)

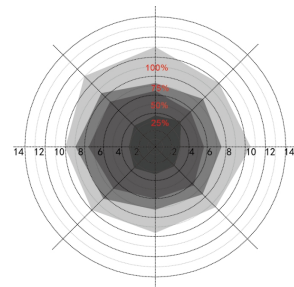
Ceiling mounted height: 6m(*)
Sensitivity: 100%/75%/50%/25%



Normal moving (Speed:1m/s)



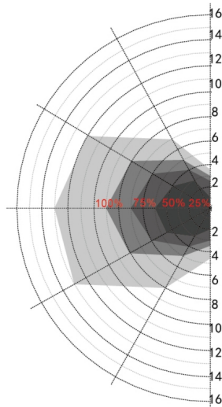
Slow moving (Speed 0.3m/s)



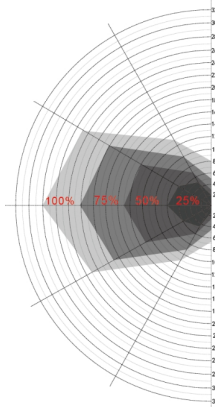
Slow moving (Speed: 0.3m/s)

3. Wall mounting

Walling mounted height: 2m
Sensitivity: 100%/75%/50%/25%



Normal moving (Speed: 1m/s)



Normal moving (Speed: 0.3m/s)

8. DIP Switch Setting

1) Output current

	1	2	3	
I	ON	ON	ON	1050 (mA)
II	ON	ON	-	900 (mA)
III	ON	-	-	650 (mA)
IV	-	-	-	600 (mA)

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2) Sensitivity

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

3) Hold Time

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

4) Daylight Sensor

	5	
I	ON	50Lux
II	-	Disable

5) Stand-by Period

	6	7	
I	ON	ON	1S
II	ON	-	5Min
III	-	ON	25Min
IV	-	-	+∞

6) Stand-by DIM Level

	8	
I	ON	10%
II	-	25%

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9. Initialization

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.

10. Factory Setting

Detection Area: 100%, Hold Time: 5S, Daylight Sensor: Disable, Stand-by DIM Level:10%, Stand-by Period:1S

11. Application Notice

Be sure to power off before adjusting DIP switch setting.

12. Version Change

Version	Date	Description
A0	April 18 , 2019	Released new product