E1-RC

PIR Motion Sensing Switch

- PIR motion sensor switch with daylight detection.
- 5 level brightness (100%, 75%, 50%, 25%, 10%).
- 4 level timer (10s, 30s, 60s, 180s).
- Two light off modes are available, the light goes out when people leave or the light maintains low brightness when people leave.
- Suitable for staircase, bedroom, living room, closet, aisle and other light sensor switch control.





Sensor

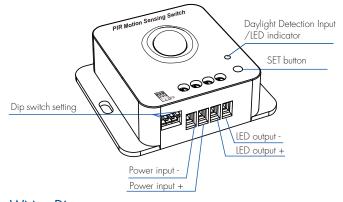
Technical Parameters

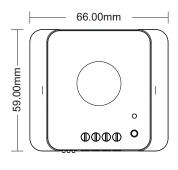
Input and Output			
Input voltage	12-48VDC		
Input current	6.5A		
Output voltage	12-48VDC		
Output current	6A@12-24V 4A@36-48V		
Output power	72VV@12V 144VV@36V	144W@24V 192W@48V	
Output type	Constant voltag	Constant voltage	
Warranty			
Warranty	5 years		

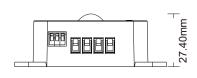
Dimming data		
Input signal	PIR sensor	
Sensitivity range	3-5m	
Sensitivity angle	80°(±20° Error)	
Dimming range	10-100%	
PWM Frequency	2KHz(default)	
Package		
Size	1.70 14770 11.40	
Size	L 70 x W 60 x H 40mm	
Gross weight	0.059kg	

	Safety and EMC		
-	EMC standard (EMC)	EN IEC 55015:2019+A11:2020 EN 61547:2009 EN IEC 61000-3-2:2019+A11:202 EN 61000-3-3:2013+A11:2019	
-	Safety standard(LVD)	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017	
	Certification	CE,EMC,LVD	
	Environment		
	Operation temperature	Ta: -20°C ~ +55°C	
	Case temperature (Max.)	Tc: +85°C	
	IP rating	IP20	

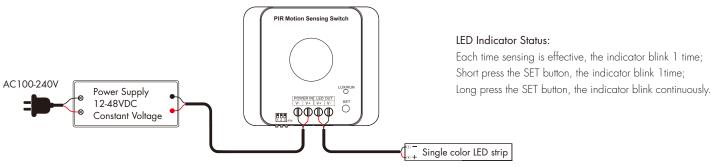
Mechanical Structures







Wiring Diagram



- 1. The wiring can be solid or stranded with a cross-sectional area of 0.5 to 1.5 mm². Conventional 1 mm² can withstand 10A output current.
- 2. When wiring is installed, the terminals must be tightened. If they are not tightened, the contact point resistance will be too high and the terminals will easily burn due to heat when used at full load for a long time.

0.5-1.5mm² 6-8mm

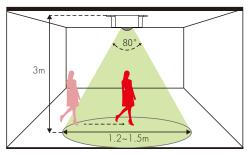
Note: The output power of a constant voltage power supply should be at least 1.2 times that of the output load (light strip), otherwise the full power output of the load can easily cause automatic flickering or shaking of the light.

User Manual Ver 1.0.0

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Installation Example

Put the controller on the wall or ceiling and fix it with screws.



Ceilling mounting pattern

~1.5m

Wall mounting pattern

Installation attention:

- 1. Recommended for wall mounting.
- 2. If the sensor is exposed to direct sunlight, interference signal will be introduced.
- 3. The sensor should be installed in a dry environment and keep away from windows, air conditioner and fans.
- 4. Make sure that the sensor stays away from heat source, such as countertops, kitchen appliances which generate hot steam, walls and windows in direct sunlight, air conditioner, heating, refrigerators, stoves and so on.
- 5. We recommend the wall-mounted installation height is 1-1.5 meters and the ceilling mounting height is no more than 3 meters.
- 6. There should not be shelter (screen, furniture, large bonsai) within the range of detection.

SET Button Function

Brightness setting:

Short press the SET button: sequentially switch 5 levels of light brightness (100%, 75%, 50%, 25%, 10%).

Long press the SET button (1-6s): Step-less dimming, with every other long press, the light level goes to the opposite direction, dimming range 10%-100%.

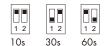
Light off mode setting:

Two light off modes are available, light off when people leave or light maintains low brightness (10%) when people leave, factory default light off when people leave. Within 5s of sensor switch power-up, short press the SET button 3 times, the LED indicator blink 3 times, set to light maintains low brightness when people leave, that is, after the end of the sensing delay, the light does not go out, keep 10% brightness.

Within 5s of sensor switch power-up, short press the SET button 5 times, the LED indicator blink 5 times, restore to factory default light off when people leave. NOTE: The brightness adjustment range automatically changes to 25%-100% when light maintains low brightness when people leave.

DIP Switch Function

1. DIP switch 1-2 set 4 levels of delayed light off time: 10s, 30s, 60s, 180s.



2. DIP switch 3 set daylight detection on or off.

1 2

180s



OFF ON

Turn on daylight detection: the light will be turned on only when the ambient light is less than the daylight sensing threshold.

Turn off daylight detection: turns on the light immediately when it senses human movement, making no distinction between day or night states. The daylight sensing threshold is fixed at 30 lux by default.

Application Scenario

PIR motion sensing switch is suitable for staircase, bedroom, living room, closet, aisle and other light sensor switch control.

