

1. Features



- Unique split design makes it suitable to built in lighting fixtures which have limited space.
- Work with 0-10V dimmable LED drivers, easy to achieve dimming function.
- Adjustable detecting sensitivity, hold time, stand-by/on-off via
 DIP switches, suitable to variety of installation sites.

2. Parameter

	T	<u></u>			
Input	Operating Voltage Rage	108-305V AC, 50Hz/60Hz			
	DC Input Voltage	N/A			
	Rated Voltage	120-277V AC, 50Hz/60Hz			
mpat	No-load Power	N/A			
	Stand-by Power	≤0.5W			
	Surge Test	LN: 1kV			
	Working Mode	ON/OFF function, 1-10V dimming			
	Type of Load	Inductive or Resistive Load			
	Load Capacity	120Vac: 3.6A; 270Vac: 3.4A			
Output	Current of Load	N/A			
		30A (50% Ipeak, twidth =500uS, 230Vac full load, cold start);			
	Max. Surge Capacity	60A (50% Ipeak, twidth =200uS, 230Vac, full load, cold start)			
	1-10V Dimming	Yes.			
Dim	Synchronous Control	N/A			
Interface	High Low-level	N/A			
	PWM Control	N/A			
	Operating Frequency	5.8 GHz ±75 MHz,ISM Band.			
	Transmitting power	0.5mW Max.			
	Hold time	5S/1min/5min/10min/15min/30min			
Sensor	Stand-by DIM Level	10%/20%/30%/50% (set via 2 DIP Switch)			
Parameters	Stand-by Period	0S/10S/1min/10min/30min/1h/∞			
	Detection Sensitivity	100%/75%/50%/25% (set via 2 DIP Switch)			
	Daylight Sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable (set via 4 DIP Switch) (Ambient light diffusion)			
	Daylight on/off	N/A			



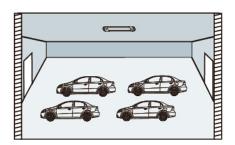
	Detecting Radius	4-6m (mounting height 3m)	
	Mounting Height	6m Max	
	Detecting Angle	150°	
	Operating Frequency	N/A	
Wireless	Transmitting power	N/A	
Module	Transmitting distance	N/A	
	Modulation mode	N/A	
	Number of coding	N/A	
Operating	Operating Temperature	-35~+70°C	
Environment	Storage Temperature	Temperature: -40°C+80°C;	
Environment	Storage Temperature	Humidity: 10%-95% (Non-condensing)	
	Safety standards	UL60730-1, AS/NZS 60669.2.1	
Certificate	EMC standards	FCC part 15	
Standards	Environmental Requirement	Compliant to RoHS	
	Certificate	UL Reconizied, SAA	
	Wiring	Press-in Type Terminals, wire diameter: 0.75-1.5mm ²	
	IP Rating	IP20	
	Protection Class	Class II	
Others	Installation	Built-in	
Others	Dimension	Main Part: 95*42.5*26mm	
	Differsion	Sensor Head: 51*20*13.5mm	
	Package	Bubble bags + clapboard +carton (K=A)	
	Net Weight	94.2g	
	Lifetime	50,000h @ Ta Full load	

Note

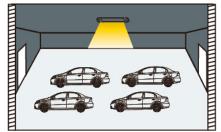
- 1. "N/A" means not available.
- 2. Detection area is affected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

3. Function

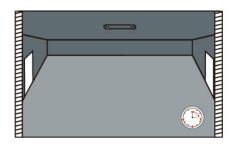
1) On/OFF Function



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

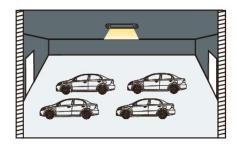


With insufficient ambient light, the sensor switches on the light when motion is detected.

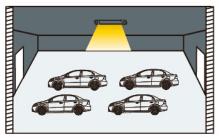


3 After elapse of hold time, the sensor switches off the light when no motion is detected.

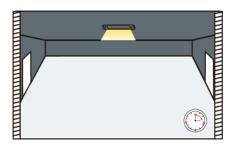
2)2- step dimming function (stand-by period set at"+∞")



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

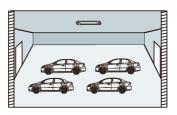


When motion is detected, the sensor will switch on the light to 100% brighteness

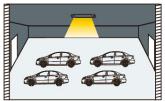


After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

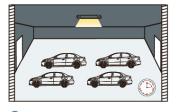
3) 3-step dimming function (stand-by period set at "5min/10min/30min/1h")



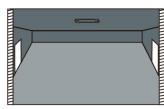
With sufficient ambient light, the light will not be switched on even if with motion signal.



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

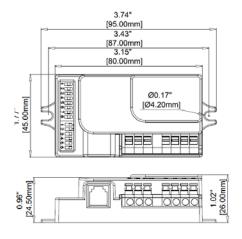


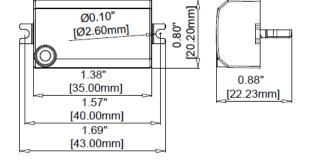
3 After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.



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

4. Dimension (mm)

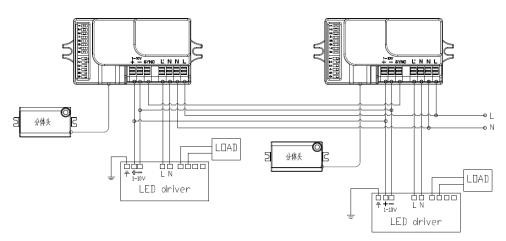




Main Part Size

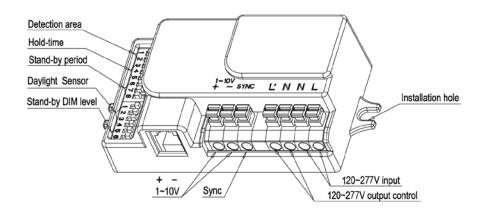
Sensor Head Size

5. Wiring



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

6. Structure

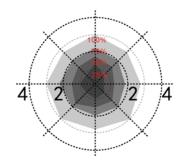




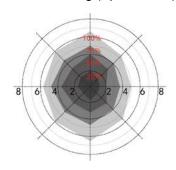
7. Radiation Pattern

Ceiling mounting

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

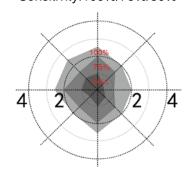


Normal moving (Speed:1m/s)

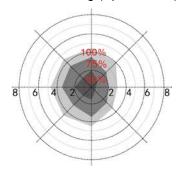


Slow moving (Speed 0.3m/s)

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



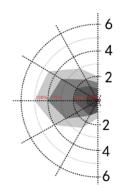
Normal moving (Speed:1m/s)



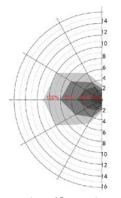
Slow moving (Speed: 0.3m/s)

Wall mounting:

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



Normal moving (Speed: 1m/s)



Slow moving (Speed 0.3m/s)

^{* 50%, 75%, 100%} detection sensitivity is workable when installed at 4m mounting height. Only 25% sensitivity is not able to detect motion signal.



8. DIP Switch Setting

Detection Area (Sensitivity)

	1	2	
I	ON	ON	100%
П	ON	-	75%
Ш	-	ON	50%
IV	-	-	25%

Hold Time

	3	4	5	
I	ON	ON	ON	5S
п	-	ON	ON	1min
ш	ON	-	ON	5min
IV	-	-	ON	10min
V	ON	ON	-	15min
VI	-	-	-	30min

Stand-by Period

	6	7	8	
I	ON	ON	ON	0\$
П	-	ON	ON	10s
Ш	ON	-	ON	1min
IV	-	-	ON	10min
V	ON	ON	-	30min
VI	-	ON	-	1h
VII	-	-	-	+∞



Stand-by dim Level

	1	2	
I	ON	ON	50%
П	-	ON	30%
III	ON	-	20%
IV	-	-	10%

Daylight Sensor

	3	4	5	6	
I	ON	ON	ON	ON	5Lux
П	-	ON	ON	ON	15Lux
III	ON	-	ON	ON	30Lux
IV	-	-	ON	ON	50Lux
v	ON	ON	-	ON	100Lux
VI	ON	ON	ON	-	150Lux
VII	-	-	-	-	Disable*

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

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: 10 mins, Stand-by Period: Infinity, Stand-by dim Level: 30%, Daylight Sensor: Disable



11. Application Notice

Be sure to power off before adjusting DIP switch setting.

12. Version Change

Version	Date	Description
A0	July 27, 2016	Released new product
A1	March 20, 2018	Change the sensor head size