

## Sensor Specifications



- Ultra-slim design for Tri-proof LED Light
- Patented needle antenna makes reliable detecting, avoid missing triggered when sensor built-in backside of the metal LED plate.
- Adjustable detecting sensitivity via DIP switches, suitable to variety of installation sites.

Please **contact us** for further information.

## Product Information

### Input

Operating Voltage Range	198-264V AC, 50Hz/60Hz
DC Input Voltage	N/A
Rated Voltage	220-240V AC, 50Hz/60Hz
No-load Power	N/A
Stand-by Power	≤0.5W
Surge Test	L--N: 1kV

### Output

Working Mode	ON/OFF function
Type of Load	Inductive or Resistive
Load Capacity	400W(Inductive) ; 800W(Resistive)
Current of Load	N/A
Max. Surge Capacity	30A (50% Ipeak, twidth =500uS, 230Vac full load, cold start); 60A (50% Ipeak, twidth =200uS, 230Vac, full load, cold start)

### Control Options

1-10V Dimming	N/A
Synchronous Control	N/A
High Low-level	N/A
PWM Control	N/A

### Sensor Parameters

Operating Frequency	5.8 GHz ±75 MHz, ISM Band.
Transmitting power	0.5mW Max.
Hold time	5s//30s/90s/5min/20min/30min
Stand-by DIM Level	N/A
Stand-by Period	N/A
Detection Sensitivity	100%/75%/50%/25%
Daylight Sensor	2Lux/10Lux/30Lux/50Lux/Disable
Daylight on/off	N/A
Detecting Radius	4-6m (mounting height 3m) , see note 2
Mounting Height	4m Max.
Detecting Angle	150° (Wall mounted), 360° (Ceiling mounted)

## Wireless Module

Operating Frequency	N/A
Transmitting power	N/A
Transmitting distance	N/A
Modulation mode	N/A
Number of coding	N/A

## Operating Environment

Operating Temperature	-25°C ... +60°C
Storage Temperature	-40°C ... +80°C (Humidity: 10%-95% Non-condensing)

## Certificate Standards

Environmental Requirement	Compliant to RoHS
Certificate	CE, RED,SAA
Safety standards	EN61058-1
EMC standards	EN300440; EN301489-1; EN55015; EN61547; EN61000-3-2; EN61000-3-3; EN62479

## Others

Wiring	Press-in Type Terminals, wire diameter: 0.5-0.75mm <sup>2</sup>
IP Rating	IP20
Protection Class	Class II
Installation	Built-in
Dimension	169mmx26mmx20mm
Package	Bubble Bag + Clapboard + Carton (K=A)
Net Weight	58gms
Lifetime	50,000Hrs @Ta Full Load

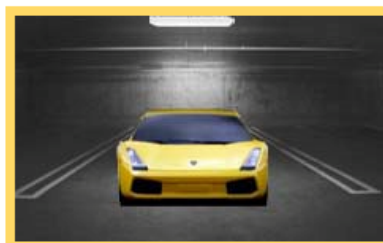
## Notes

1. "N/A" represents Not Available.
2. Detection area is affected based on the volume and speed of the motion. It is tested with a reference of 165cm tall person walking at a speed of 0.5m/s.

## ON/ OFF Function



With sufficient ambient light, when motion is detected, the sensor does not switch the lamp ON.

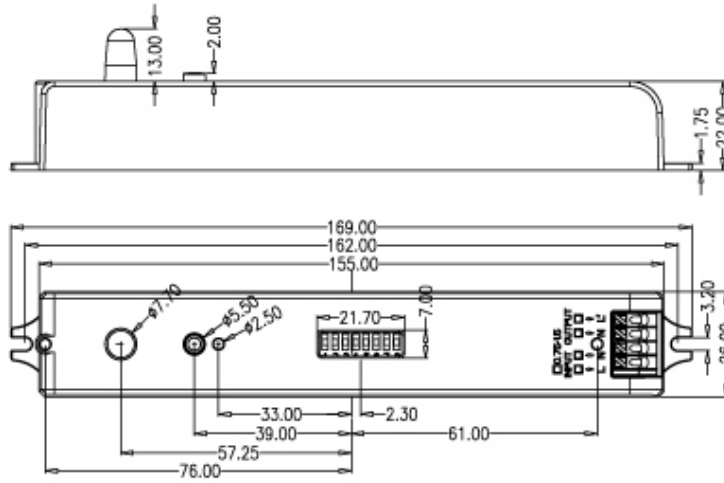


With insufficient ambient light, when motion is detected, the sensor switches the lamp ON.

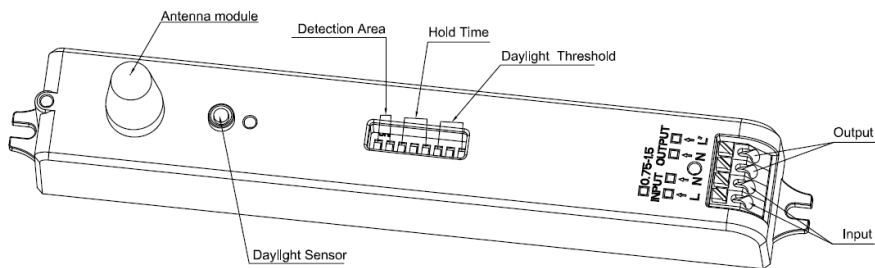


Beyond the hold time, when there is no motion detected, the sensor switches the lamp OFF.

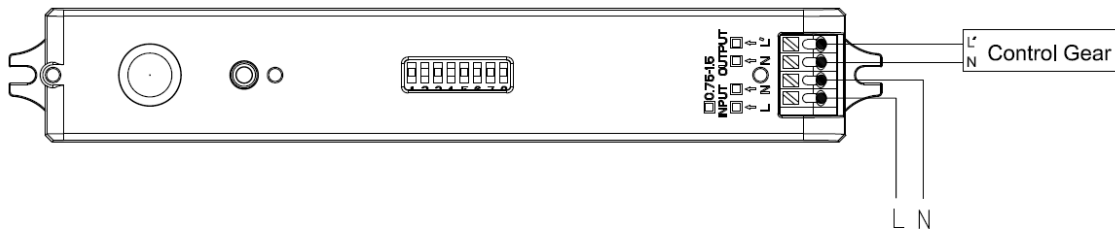
## Dimensions (mm)



## Structure



## Wiring



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

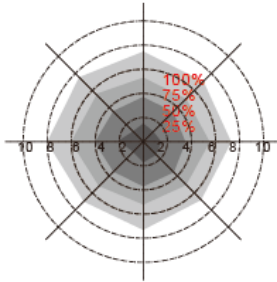
## Radiation Pattern

### Surface Mounted

Surface Mount Height: 3m  
Sensitivity: 100%/75%/50%/25%

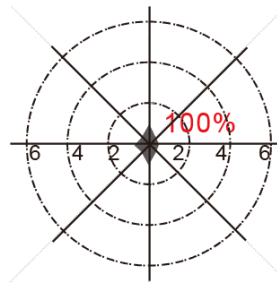


Normal Moving (Speed: 1m/s)

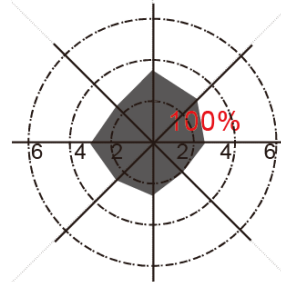


Slow Moving (Speed: 0.3m/s)

Surface Mount Height: 4m\*  
Sensitivity: 100%



Normal Moving (Speed: 1m/s)

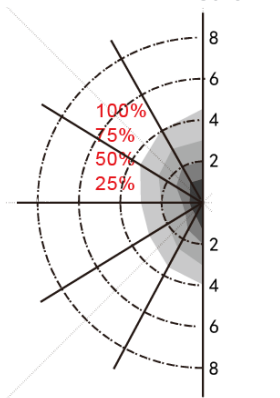


Slow Moving (Speed: 0.3m/s)

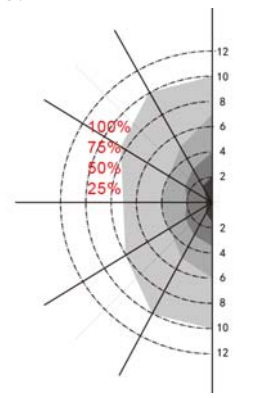
\*Only 100% detection sensitivity is workable when installed at 4m Mounting height. 25%/50%/75% sensitivity is unable to detect motion signal.

### Wall Mounted

Wall Mount Height: 2m  
Sensitivity: 100%/75%/50%/25%



Normal Moving (Speed: 1m/s)



Slow Moving (Speed: 0.3m/s)

## DIP Switch Setting

Detection Area [ Sensitivity]

	1	2
100%	ON	ON
75%	-	ON
50%	ON	-
25%	-	-

Hold Time

	3	4	5	
I	ON	ON	ON	5S
II	-	ON	ON	30S
III	ON	-	ON	90S
IV	-	-	ON	5min
V	ON	ON	-	20min
VI	-	-	-	30min

Others

	6	7	8	
I	ON	ON	ON	2Lux
II	ON	ON	-	10Lux
III	-	ON	-	30Lux
IV	ON	-	-	50Lux
V	-	-	-	Disable*

\*Disable means the Daylight sensor does not work The sensor will turn ON as soon as motion is detected, regardless of the ambient light level.

## Radiation Pattern

Quick switch ON/OFF 3 times within 2sec to override the sensor function. Lights will switch on all the time.  
Power OFF and ON again to recover sensor function.

## Initialization

After the power is ON, the sensor automatically turns the light ON with 100% brightness. After 10 secs, it will turn the light OFF.  
During th initialization, the sensor will not be able to detect the movement.

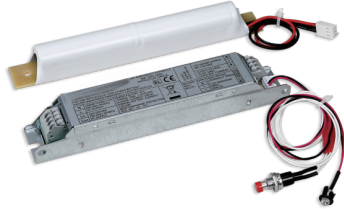
## Factory Setting

Detection area: 100%  
Hold Time:5 secs  
Daylight Sensor: Disable

## Application Notice

Be sure to turn the power OFF before adjusting DIP switch setting.

## Emergency Specifications

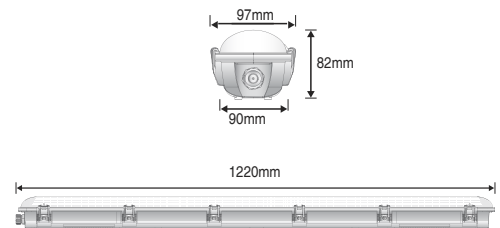


- Self charging LiFeP04 battery
- Keeps lights on at emergency level for three hours
- Test switch with integrated LED indicator

Please contact us for further information.

## Product Information

Maximum Battery Temperature	70°
Battery Warranty	4 years
Emergency Classification	C0:D80, C90:D50
Emergency Power (Max.)	4W
Battery Charging Current	0-250mA



## Maximum Spacing for Class D Luminaire

Maximum Spacings Mounting Height (Metres)

Luminaire Classification	2.4	2.7	3.0	3.3	3.6	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10	15	20	
D32	2.1 11.5	13.2	14.8	16.5	17.6	18.0	18.5	19.0	19.5	20.1	20.5	20.7	20.6	20.3	0.0	N/A
D40	11.5	13.2	14.8	16.5	18.1	19.5	20.1	20.7	21.2	22.1	22.6	23.0	23.1	23.0	0.0	N/A
D50	11.5	13.2	14.8	16.5	18.1	19.8	21.8	22.5	23.1	24.1	24.9	25.4	25.7	25.8	23.6	0.0
D63	11.5	13.2	14.8	16.5	18.1	19.8	22.0	24.5	25.2	26.4	27.3	28.0	28.5	28.8	27.9	0.0
D80	11.5	13.2	14.8	16.5	18.1	19.8	22.0	24.7	27.5	28.9	30.0	30.9	31.5	32.1	32.3	28.8

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## Wiring Diagram

