1. Features

- Ultra-slim design for Tri-proof LED light
- Patented needle antenna makes reliable detecting, avoid false trigger when sensor built-in backside of metal LED plate.
- Work with 1-10V dimmer LED driver, easy to achieve 2-step or 3-step dimming function.
- Work with remote controller, easy to adjust sensor parameters.

2. Parameter

|		
Input	Operating Voltage Range	108-305V AC, 50Hz/60Hz
	DC Input Voltage	N/A
	Rated Voltage	120-277V AC, 50Hz/60Hz
	No-load Power	N/A
	Stand-by Power	≤0.5W
	Surge Test	L--N: 1kV
Output	Working Mode	ON/OFF function, 1-10V dimming
	Type of Load	Inductive or Resistive
	Load Capacity	200W@120Vac, 400W@277Vac(Inductive) 400W@120Vac, 800W@277@Vac(Resistive)
	Current of Load	N/A
	Max. Surge Capacity	30A (50% I_{peak}, t_{width} =500uS, 230Vac full load, cold start); 60A (50% I_{peak}, t_{width} =200uS, 230Vac, full load, cold start)
Dim Interface	1-10V Dimming	20mA Max （Passive interface）
Sensor Parameters	Operating Frequency	5.8 GHz ±75 MHz，ISM Band.
	Transmitting power	0.5mW Max.
	Hold time	5S/5min/10min/30min (set by DIP switch) 5s/30s/1min/3min/5min/10min/20min/30min (set by remote)
	DIP switch set only	25%(2.2-2.5V)/35%(3.5V-4V)/50%(4.5-5.0V) (remote set only)
	Stand-by Period	0S/5min/15min/+∞(set by DIP switch) 0s/10s/1min/3min/5min/10min/30min/+∞(set by remote)
	Detection Area	100%/75%/50%/25% (set by DIP switch) 100%/75%/50%/25%(set by remote)
	Daylight Sensor	5lux/25lux/50lux/100lux/Disable(Ambient light diffusion)(set by DIP switch)

|		5lux/15lux/30lux/50lux/100lux/150lux/Disable(set by remote)
	Daylight on/off	N/A
	Detecting Radius	4-7m (mounting height 3m)
	Mounting Height	4m Max.
	Detecting Angle	150°
Operating Environment	Operating Temperature	-25~+60℃
	Storage Temperature	Temperature: -40℃…+80℃; Humidity: 10%-95% (Non-condensing)
Certificate Standards	Safety standards	EN61058-1
	EMC standards	N/A
	Environmental Requirement	Compliant to RoHS
	Certificate	CE, UL, RED
Others	Wiring	Press-in Type Terminals, wire diameter : 220-240v (0.75-1.5mm[2)] 120/277v (0.75-1.0mm[2)]
	IP Rating	IP20
	Protection Class	Class II
	Installation	Built-in
	Dimension	193*26*22mm
	Package	Bubble bag +white box+ clapboard +carton(K=A)
	Net Weight	100g
	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 (stand-by period set at '0')
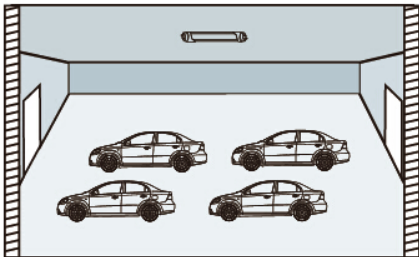
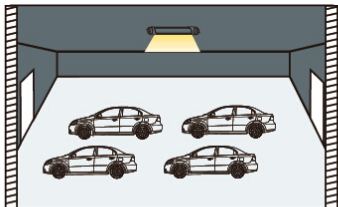❶ With sufficient ambient light, the light will not be switched on even if with motion signal.
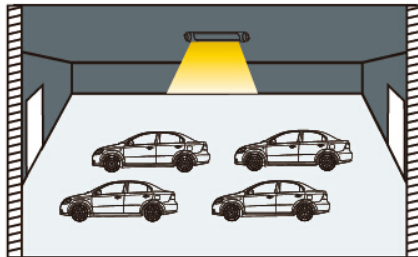
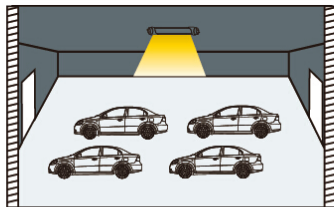❷ With insufficient ambient light, the sensor switches on the light when motion is detected.

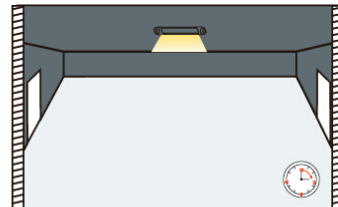❸ After elapse of hold time, the sensor switches off the light when no motion is detected.

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

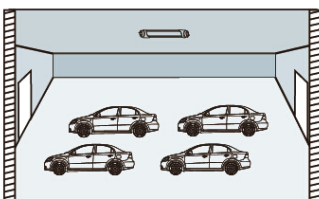❶ If there is no motion detected, the light will be remained at a low light level all the time.

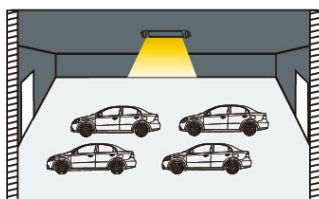❷ When motion is detected, the sensor will switch on the light to 100% brighteness

❸ 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"or"15min")

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

❷ With insufficient ambient light, the sensor switches on the light when motion is detected.
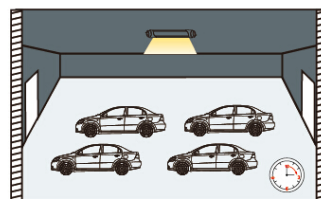
❸ After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.
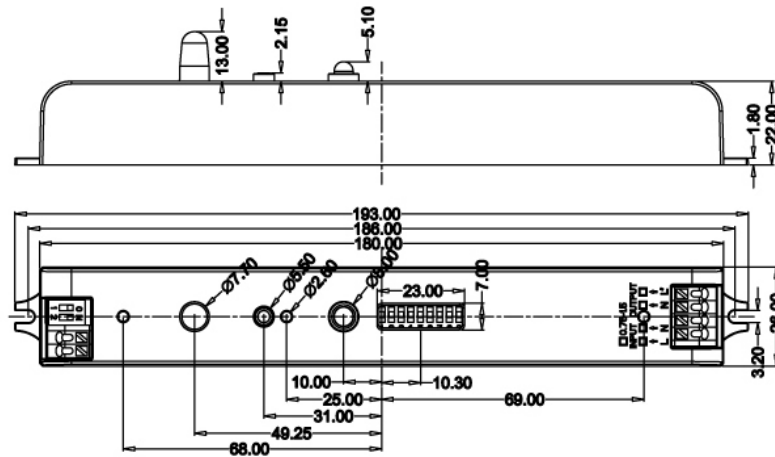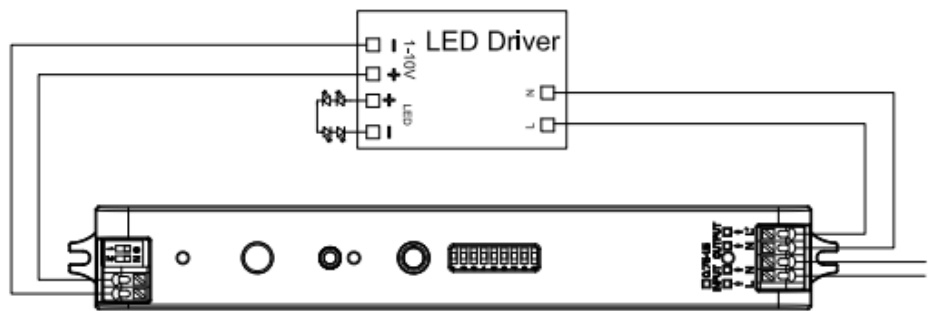
❹ After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

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4. Dimension (mm)

5. Wiring

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

6. Structure
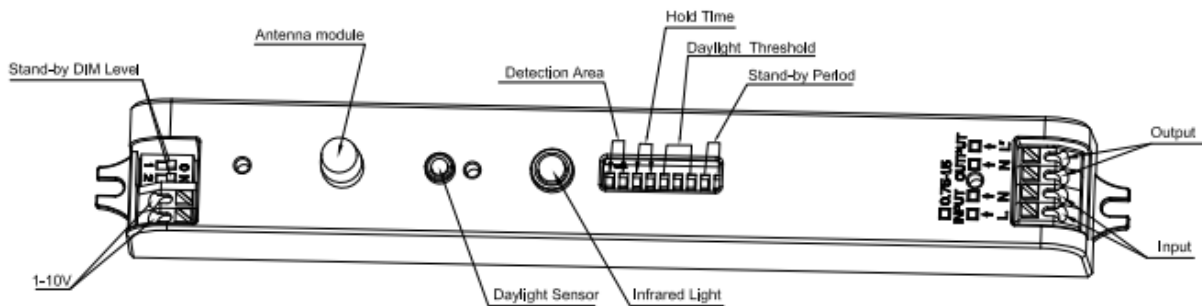
7. Radiation Pattern

Ceiling mounting

<table>
<tr><td>Ceiling mounted height: 3m
Sensitivity: 100%/75%/50%/25%</td><td>Ceiling mounted height: 4m(*)
Sensitivity:100%/75%</td></tr>
</table>
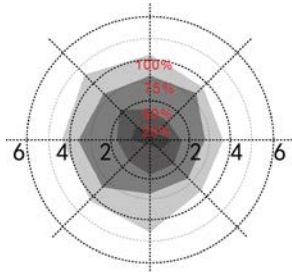
Normal moving (Speed:1m/s)   Normal moving (Speed:1m/s)
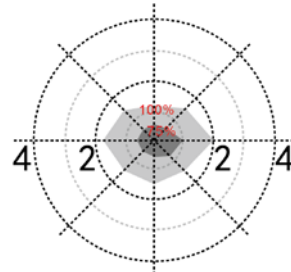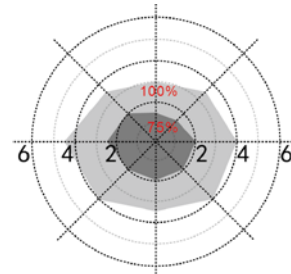
Slow moving (Speed 0.3m/s)   Slow moving (Speed: 0.3m/s)

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

Wall mounting:

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

Normal moving (Speed：1m/s)   Slow moving (Speed 0.3m/s)

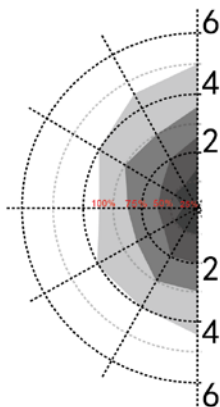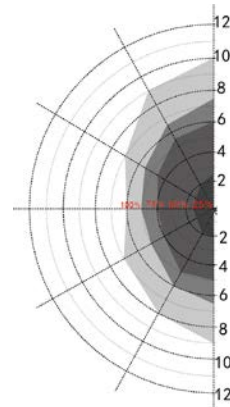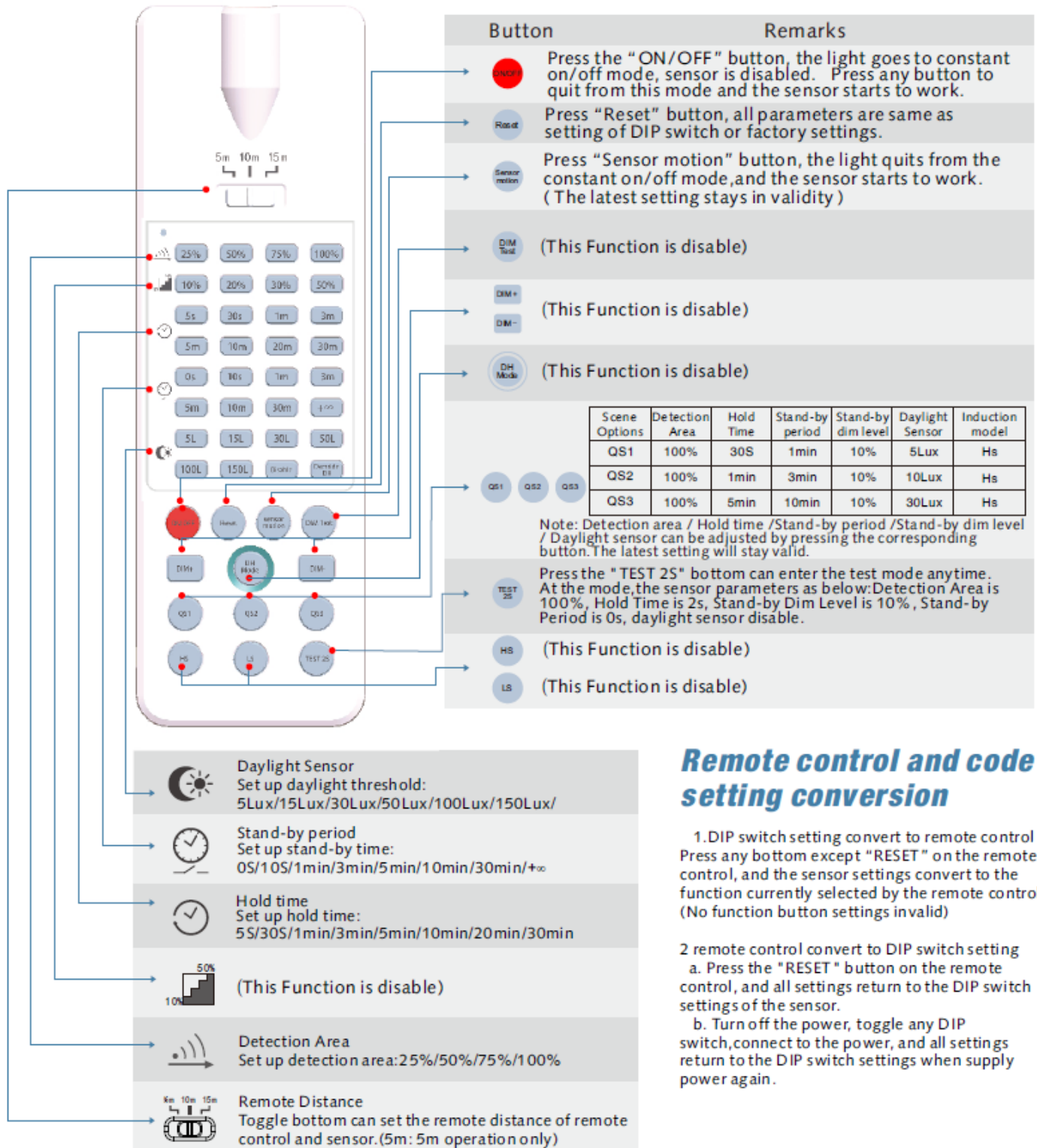| Button	Remarks
ON/OFF	Press the "ON/OFF" button, the light goes to constant on/off mode, sensor is disabled. Press any button to quit from this mode and the sensor starts to work.
Reset	Press "Reset" button, all parameters are same as setting of DIP switch or factory settings.
Sensor motion	Press "Sensor motion" button, the light quits from the constant on/off mode, and the sensor starts to work. (The latest setting stays in validity)
DIM Test	(This Function is disable)
DIM+ DIM-	(This Function is disable)
DH Mode	(This Function is disable)

Scene Options	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor	Induction model
QS1	100%	30S	1min	10%	5Lux	Hs
QS2	100%	1min	3min	10%	10Lux	Hs
QS3	100%	5min	10min	10%	30Lux	Hs

Note: Detection area / Hold time /Stand-by period /Stand-by dim level / Daylight sensor can be adjusted by pressing the corresponding button. The latest setting will stay valid.

TEST 2S	Press the "TEST 2S" bottom can enter the test mode anytime. At the mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 2s, Stand-by Dim Level is 10%, Stand-by Period is 0s, daylight sensor disable.
HS	(This Function is disable)
LS	(This Function is disable)

Daylight Sensor
Set up daylight threshold:
5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/

Stand-by period
Set up stand-by time:
0S/10S/1min/3min/5min/10min/30min/+∞

Hold time
Set up hold time:
5S/30S/1min/3min/5min/10min/20min/30min

(This Function is disable)

Detection Area
Set up detection area: 25%/50%/75%/100%

Remote Distance
Toggle bottom can set the remote distance of remote control and sensor.(5m: 5m operation only)

Remote control and code setting conversion

1.DIP switch setting convert to remote control
Press any bottom except "RESET" on the remote control, and the sensor settings convert to the function currently selected by the remote control. (No function button settings invalid)

2 remote control convert to DIP switch setting
 a. Press the "RESET" button on the remote control, and all settings return to the DIP switch settings of the sensor.
 b. Turn off the power, toggle any DIP switch, connect to the power, and all settings return to the DIP switch settings when supply power again.

9. 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	5min
III	ON	-	10min
IV	-	-	30min

Stand-by Period

	8	9	
I	ON	ON	0S
II	-	ON	5min
III	ON	-	15min
IV	-	-	+∞

Stand-by dim Level

	1	2		Voltage of 1-10V Interface
I	ON	ON	50%	5-5.5V
II	-	ON	35%	3.5-4V
III	ON	-	25%	2.2-2.5V