

1. Features



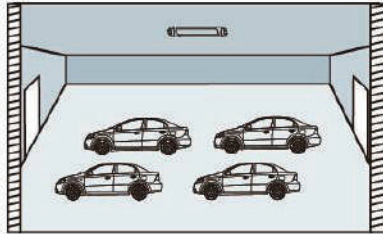
- Patent Bipolar antenna, no blind detection area when compared with traditional needle antenna
- Stable performance when mount in metal roof environment
- Slim cut hole size (10mm x 40mm)
- Parameters can be set by remote control MH10
- 5 years warranty

2. Parameter

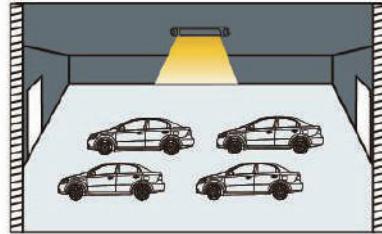
Input	DC Input Voltage	7.5-12 VDC
	Rated Voltage	12V DC
	Voltage Ripple	<100mVp-p
	Stand-by Power	<0.5W
Output	Working Mode	0-10v signal
Sensor Parameters	Operating Frequency	5.8 GHz \pm 75 MHz, ISM Band.
	Transmitting power	1mW Max.
	Hold time	5S/30S/1min/3min/5min/10min/20min/30min
	Stand-by DIM Level	10%(1.4-1.6V), 20%(1.9-2.1V), 30%(2.9-3.1V), 50% (4.9-5.1V)
	Twilight Time	0s/10S/1min/3min/5min/10min/30min/+ ∞
	Detection Area	25%/50%/75%/100%
	Daylight Sensor	5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable Daylight priority: ON / OFF value (5lux/15Lux/30Lux/50Lux)/150Lux 100Lux/200Lux 150Lux/300Lux
	Detecting Radius	\geq 3m (mounting height 3m, moving speed 0.3m/s) \geq 8m (horizontal installation 2m, moving speed 0.3m/s)
	Mounting Height	2.5-6m 6m Max
Detecting Angle	130°@Xz plane / 89°@Yz plane	
Operating Environment	Operating Temperature	-25°C...+60°C
	Storage Temperature	Temperature: -40°C...+80°C; Humidity: 85% (non-condensing)
	EMC standards	CE RED
	Environmental Requirement	Compliant to RoHS

3. Function

1) On/OFF Function (stand-by period be set to "0s")



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

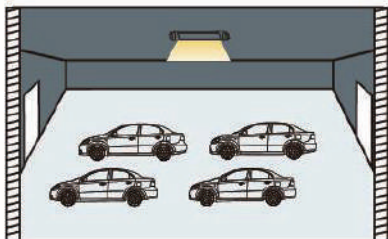


2 With insufficient ambient light, the sensor switches on the light when motion is detected.

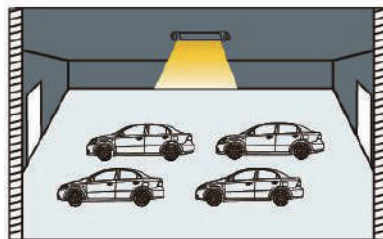


3 After elapse of hold time, the sensor switches off the light when no motion is detected.

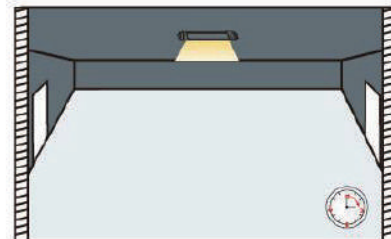
2) 2-step dimming function (stand-by period be set to "+∞")



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

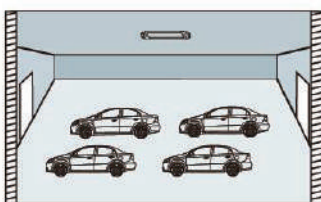


2 When motion is detected, the sensor will switch on the light to 100% brightness

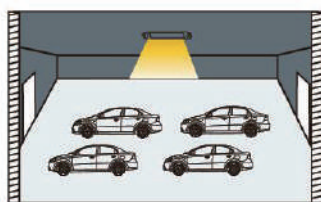


3 After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

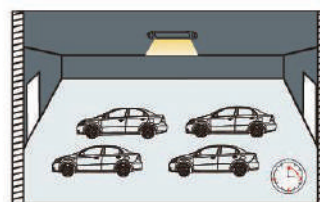
3) 3-step dimming function (stand-by period be set to "10S/1min/3min/5min/10min/30min")



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.

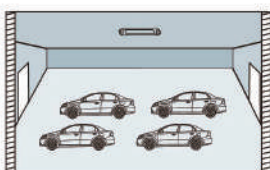


3 After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.

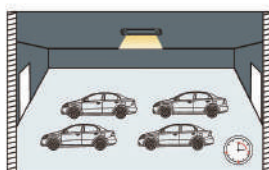


4 After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

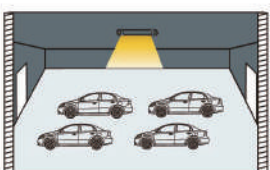
4) Daylight priority (stand-by period set to "DH Mode")



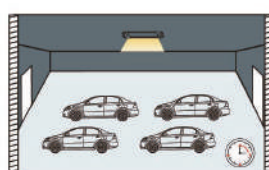
1 With sufficient ambient light, the light will not be switched on even if with motion signal.



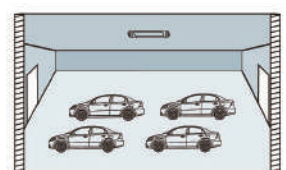
2 When the ambient light is insufficient, the lamp will turn on and enter the low light state (standby level).



3 With insufficient ambient light, the lamp goes on full light when a mobile signal is detected.



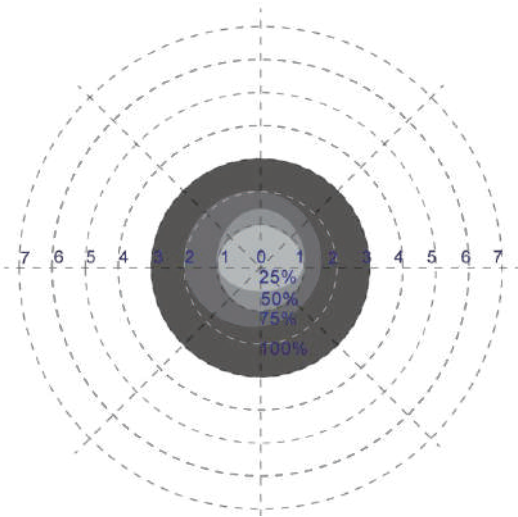
4 After hold time, if no moving is detected in the detection area, the lamp will automatically turn to standby brightness.



5 After standby time, if no moving object is detected in the detection area and the ambient light is sufficient, the lamp will turn off automatically.

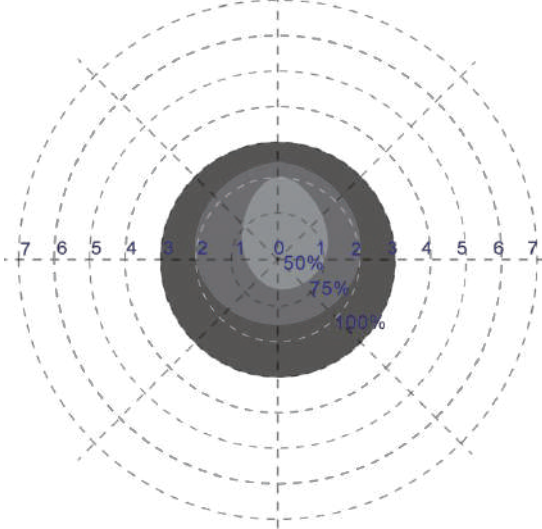
4. Radiation Pattern

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



Normal moving (Speed:1m/s)

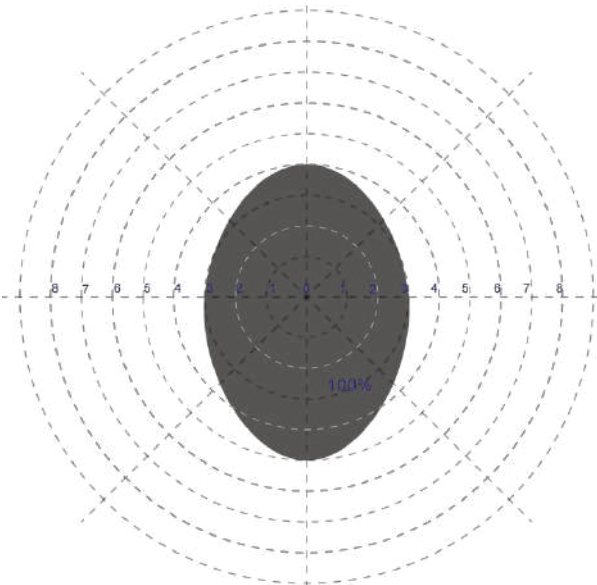
Ceiling mounted height: 3m
Sensitivity: 100%/75%/50%



Slow moving (Speed: 0.3m/s)

When installed at 6m mounting height, sensor with 25% detection area is unable to detect motion signal.

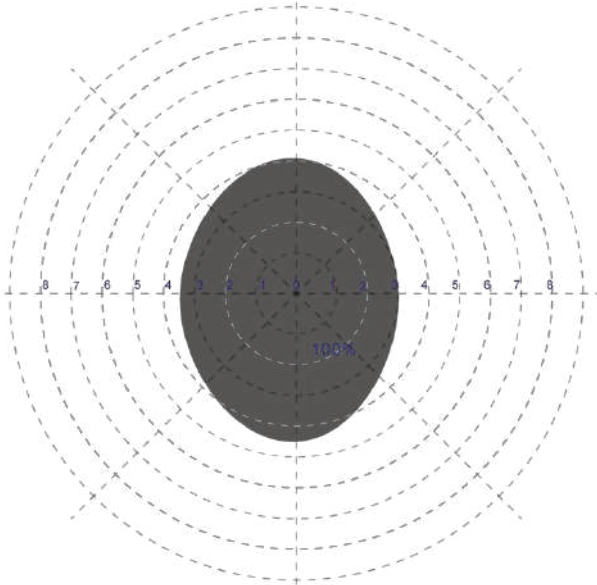
Ceiling mounted height: 6m
Sensitivity: 100%



Normal moving (Speed:1m/s)

When installed at 6m mounting height, sensor with 75%/50%/25% detection area is unable to detect motion signal.

Ceiling mounted height: 6m
Sensitivity: 100%



Slow moving (Speed: 0.3m/s)

When installed at 6m mounting height, sensor with 75%/50%/25% detection area is unable to detect motion signal.

5. Remote control

Remote Control Setting	Button	Remarks																												
		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. With memory function, power on again, the light will keep on.																												
		Press "Reset" button, all parameters are same as setting of DIP switch or factory settings.																												
		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)																												
		N/A																												
		Long press > 3S to exit the daylight priority mode.																												
		Short press "Dim+/Dim-" button to Set the output lumen level, each press will $\pm 2\%$ light level.																												
		Long press > 3s, sensor will be switched to daylight priority mode, if preset daylight value is Disable, press DH Mode can not start daylight priority mode.																												
		<table border="1"> <thead> <tr> <th>Scene Option</th> <th>Detection Area</th> <th>Hold Time</th> <th>Stand-by period</th> <th>Stand-by dim level</th> <th>Daylight Sensor</th> <th>Induction model</th> </tr> </thead> <tbody> <tr> <td>Q1</td> <td>100%</td> <td>5min</td> <td>10min</td> <td>10%</td> <td>30Lux</td> <td>HS</td> </tr> <tr> <td>Q2</td> <td>100%</td> <td>10min</td> <td>30min</td> <td>10%</td> <td>Disable</td> <td>HS</td> </tr> <tr> <td>Q3</td> <td>100%</td> <td>20min</td> <td>30min</td> <td>10%</td> <td>Disable</td> <td>HS</td> </tr> </tbody> </table> <p>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.</p>	Scene Option	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor	Induction model	Q1	100%	5min	10min	10%	30Lux	HS	Q2	100%	10min	30min	10%	Disable	HS	Q3	100%	20min	30min	10%	Disable	HS
	Scene Option	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor	Induction model																							
	Q1	100%	5min	10min	10%	30Lux	HS																							
	Q2	100%	10min	30min	10%	Disable	HS																							
	Q3	100%	20min	30min	10%	Disable	HS																							
		Press the "TEST 2S" button can enter the test mode any time. At the mode, the sensor parameters as below: Detection Area is 100% , Hold Time is 5s, Stand-by Dim Level is 10%, Stand-by Period is 0s, daylight sensor disable. This function only for testing. Quit the mode by pressing "RESET" or any other function buttons.																												
		N/A																												
		Daylight Sensor Set up daylight threshold: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/ Disable																												
	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																													
	Stand-by dim level Set up stand-by dim level: 10%/20%/30%/50%																													
	Detection Area Set up detection area: 25%/50%/75%/100%																													
	N/A																													

6. Factory Setting

Detection area: 100%, Hold Time: 5S, Stand-by Period: 0s, Stand-by dim level: 10%, Daylight Sensor: Disable

7. Application Notice

- 1) The light sensitivity threshold is in a sunny environment, no shadow and ambient light diffuse reflection..Ambient lux level could be different in different environment, weather, climate, time-of-day and season.
- 2) The parameters of the sensor may need to be reconfigured in different installation environments. Please refer to

the following instructions or contact the manufacturer.

- 3) Sensor could be triggered by wind and rain, as well as the moving objects nearby, if apply outdoor.
- 4) The mounting height is no more than 4m, proper mounting height is 6m; the distance between any inductive sensors should be greater than 3m.
- 5) Do not place the sensor close to high-density objects such as metal, glass, concrete walls, etc, false triggering could happen. When the sensor is installed in a metal lamp, metal reflective surface, or a narrow enclosed environment, the microwave will be reflected repeatedly and cause false triggering. Please reduce the sensitivity or contact the manufacturer for technical support.
- 6) Please ensure that there are no moving signals around the sensor, such as fan, DC motor, sewer pipe, air outlet, etc., the sensor may generate false trigger.
- 7) You are advised to test 5 samples before mass application of sensor in a new lighting project.
- 8) Due to continuous improvement, the contents of this instruction could be changed without prior notice
- 9) A stabilized DC power supply with stable output voltage and low ripple must be used, the power supply ripple should be less than 100mV, and the load current should be greater than 25mA.