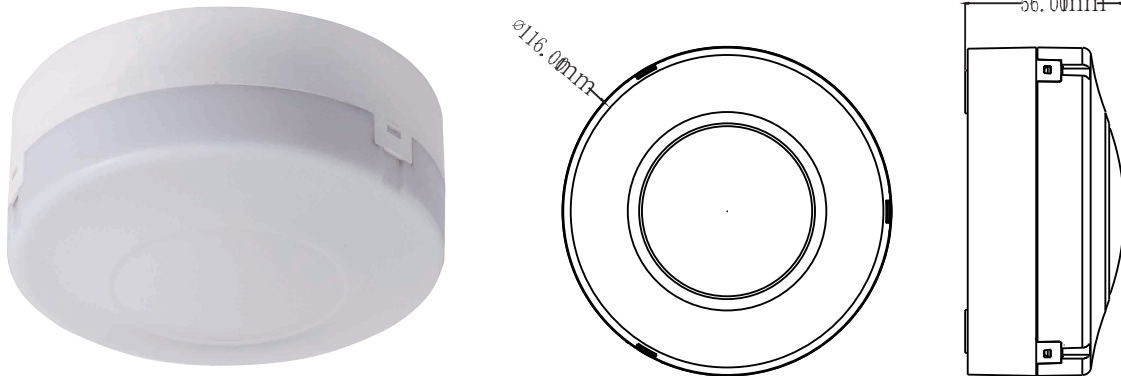


PD-MV1012-A Microwave Sensor Instruction

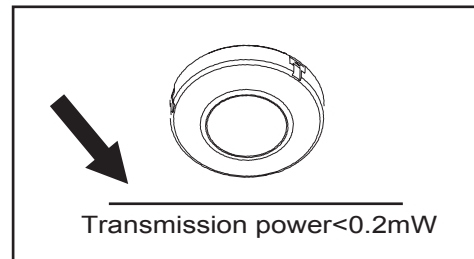


Specifications

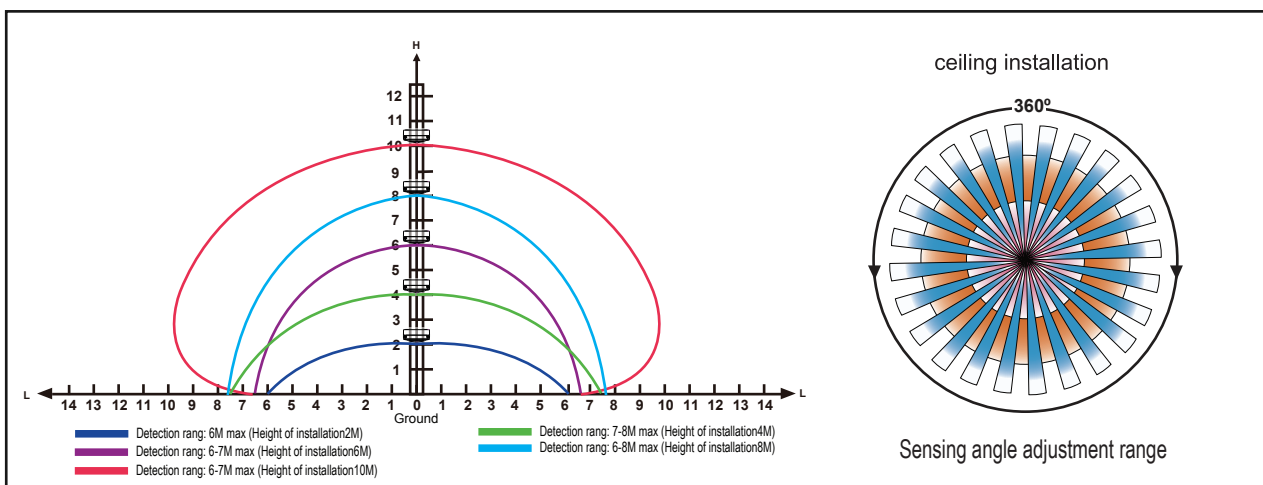
Power source: 100-240VAC
 Power frequency: 50/60Hz
 Rated load:
 1200W/5A, Max, tungsten ($\cos\phi=1$) (220-240VAC)
 300W/2.5A, Max, fluorescent ($\cos\phi=0.5$) (220-240VAC)
 600W/5A, Max, tungsten ($\cos\phi=1$) (100-130VAC)
 150W/2.5A, Max, fluorescent ($\cos\phi=0.5$) (100-130VAC)
 Transmission power: $<0.2mW$

Working temperature: $-15^{\circ}C \sim +70^{\circ}C$
 Detection angle: 360°
 Detection range: 2-10m (radii.) (adjustable)
 Time setting: 8sec to 12min (adjustable)
 Light control: 2-2000LUX (adjustable)
 Power consumption: approx. 0.5W
 Installation site: ceiling mounting
 HF system: 5.8GHz CW electric wave, ISM band

Note: the high-frequency output of this sensor is $<0.2mW$ - that is just one 5000th of the transmission power of a mobile phone or the output of a microwave oven.



Sensor information



Utilizing field and introduction

PD-MV1012-A is a motion sensor whose detection range is 360° and working frequency is 5.8G. It adopts a microwave sensor (HF output $<0.2mW$), so it is of more stable and safer performance than PIR motion sensor, it can also be used where the ambient temperature is about $-15^{\circ}C \sim +70^{\circ}C$.

Installation

1. Through the buckle under cover(see fig.1)(fig2)
2. Hold base against the Ceiling and mark drill holes, paying attention to any existing wiring in the Ceiling(fig.3);
3. Drill the holes, insert wall plugs (6mm dia.);(see fig.4);

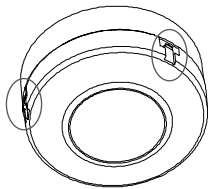
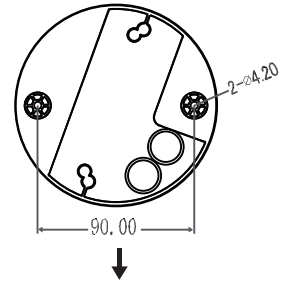


fig.1

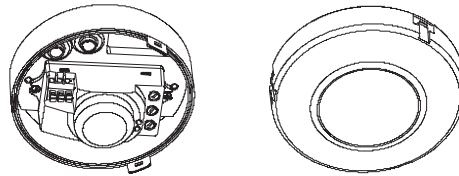


fig.2

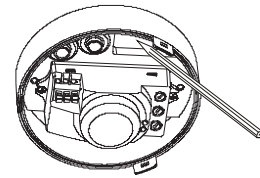


fig.3

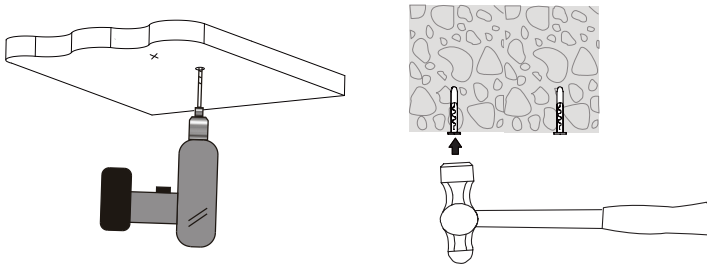
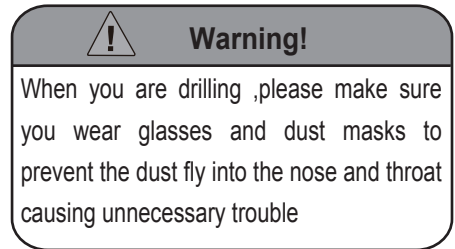


fig.4



4. Put the power wire and load wire through the base holes (see fig.5) ;
5. Cover cover into buckle (see fig.6) ;

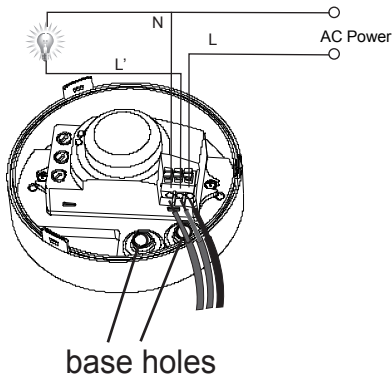


fig.5

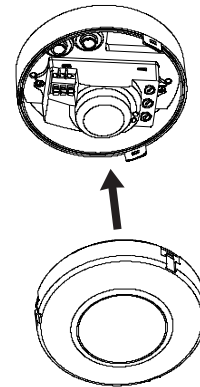
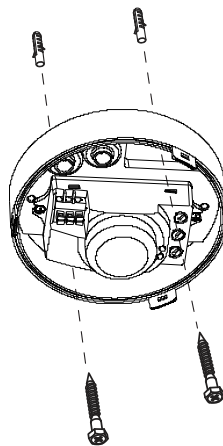
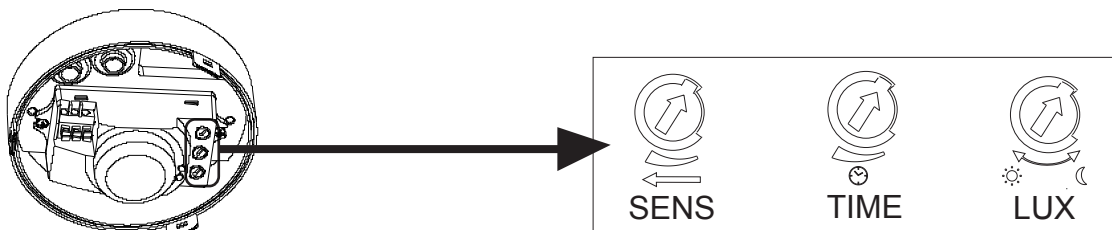


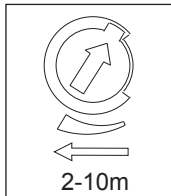
fig.6

Knob setting



If you want PD-MV1012-A to detect small zone, you can just adjust the sense knob SENS to the range that you need (You may need to adjust some times until you think it is suitable). If you want that the light can be turned on when the circumstance luminance is under some value, you can just adjust the knob LUX (The working luminance knob) to select the luminance value (You may need to adjust some times until you think it is suitable).

Detection range setting(sensitivity)



Detection range is the term used to describe the radii of the roughly circle casting on the ground when installed at the height of 2.5 m. To turn the knob fully anti-clockwise is the minimum range (2m), fully clockwise is the maximum (10m).

NOTE: the above detection distance is gained in the case of a person who is between 1.6m~1.7m tall with middle figure and moves at a speed of 1.0~1.5m/sec. If person's stature, figure and moving speed change, the detection distance will also change.

ATTENTION: When use this product, please adjust the sensitivity to an appropriate position you need, please do not adjust the sensitivity to maximum, to avoid the product does not work normally caused by wrong motion. Because the sensitivity is too high easily detect the wrong motion by wind blowing leaves & curtains, small animals, and the wrong motion by interference of power grid & electrical equipment. All those lead the product does not work normally !

When the product does not work normally, please try to lower the sensitivity appropriately, and then test it.

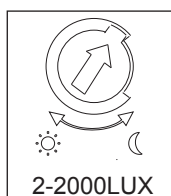
Time setting



The light can be set to stay ON for any period of time between approx. 8sec(turn fully anticlockwise) and a maximum of 12min(turn fully clockwise). Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.

NOTE: When the light be auto off, it will take 1 second before the sensor is ready to detect another movement, that is, only signal detected 1 seconds later can the light be auto-on.

Light-control setting



It can be defined in the range of 2~2000 LUX. To turn the knob fully anti-clockwise is about 2 lux, fully clockwise is about 2000 lux. When adjusting the detection zone and performing the walk test in daylight, you should turn the knob fully clockwise.

NOTE: please don't adjust the three functional buttons to excess. That is because the three functional buttons were connected to the components directly, there is a small stopper in each of the three components, when you adjust the buttons from start to end, the excessive turn will damage the stopper, and lead to the 360° non-stop turn around. The adjust range limit is 270°, please do pay attention to this.



Warning! The following situations will lead to error reaction.

- 1、 Being installed on the rocking object will lead to error reaction.
- 2、 The shaking curtain blown by wind will lead to error reaction. Please select the suitable place to install.
- 3、 Being installed where the traffic is busy will lead to error reaction.
- 4、 The sparks produced by some equipment nearby will lead to error reaction.

Fault and the solution

Fault	Failure cause	Solution
The load fails to work.	Light-illumination is set incorrectly.	Adjust the setting of the load.
	The load is broken.	Change the load.
	The power is off.	Turn the power on.
The load works all the time.	There is a continuous signal in the region of the detection.	Check the settings of the detection area.
The load works when there is no motion signal detected.	The lamp isn't installed well so that sensor fails to detect reliable signals.	Re-adjust the installation place.
	Moving signal is detected by the sensor (movement behind the wall, the movement of small objects, etc.)	Check the settings of the detection area.
The load fails to work when there is motion signal detected.	The motion speed is too fast or the defined detection area is too small.	Check the settings of the detection area.



Warning!

- Please confirm with professional installation.
- For safety purposes, please cut off power before installation and removal operations.
- Any losses caused by improper operation, the manufacturer does not undertake any responsibility.

We are committed to promoting the product quality and reliability, however, all the electronic components have certain probabilities to become ineffective, which will cause some troubles. When designing, we have paid attention to redundant designs and adopted safety quota to avoid any troubles.

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