

This product is a multi-purpose surface mount dual sensor. It can be adjusted to suit both vertical & horizontal installations. It is a high sensitivity detector with a wide detection range. Adjustable in both the horizontal and vertical fields with a sensor on the front and the bottom. It activates on human motion, when a person is detected in the field of view, the switch is activated, and power will be delivered to your light source. This product can identify day and night automatically. It is easy to install and has multiple applications.

**Power Source:** 220V/AC-240V/AC

**Power Frequency:** 50/60Hz

**IP:** 54

**Ambient Light :** <10-2000LUX (adjustable)

**Time Delay:** min:10sec  $\pm$  3sec / max:15sec  $\pm$  2min

**Rated Load:** 1200W (incandescent lamp)

**Rated Load:** 300W (LED lamp)

**Dual Sensor Angles:** 180°

**Working Temperature:** -20~+40°C

**Working Humidity:** <93%RH

**Installation Height:** 1.8m~2.5m

**Power Consumption:** <0.5W (work)

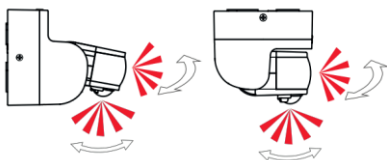
**Detection Moving Speed:** 0.6~1.5m/s

**Detection Distance:** 12m max(<24°C)

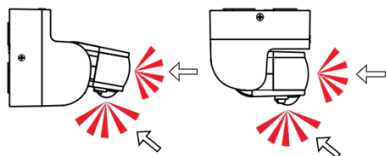
## Function

Range: The wide detection range includes up and down, left and right rotations (see the following diagram), the detection range can be adjusted by changing the orientation of the sensor. The most effective sensing is movement ACROSS the field of view.

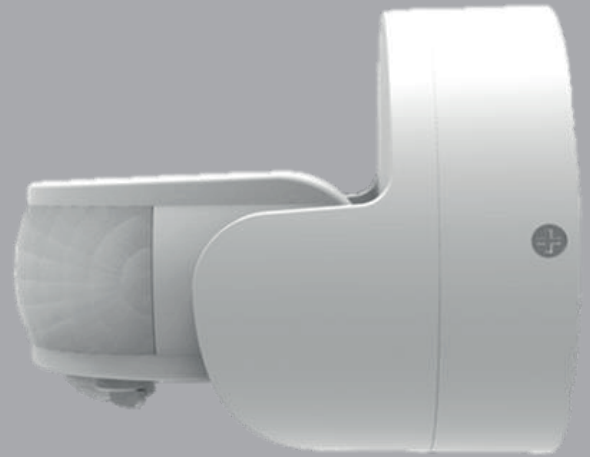
### Good sensitivity



### Poor sensitivity

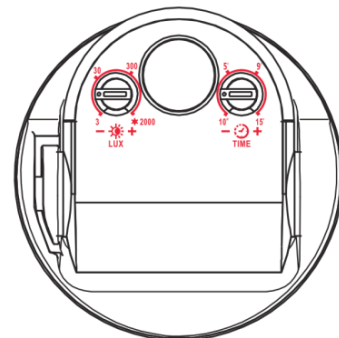


## 180° Motion Sensor User Manuel



**LUX:** By turning the sensor to "+", it will work both day and night, when turning it to "-", it will only work when the ambient light is less than 3LUX. Refer to Indicative Lux Marking.

**Time-delay:** Once the sensor is triggered, if the sensor continues to be activated by movement it will add a second time delay e.g. first time on delay is 2min, second activation adds a further 2min so the total time on will be 4min. Time-delay is also adjustable; you can choose the length to which the light stays illuminated, the minimum is 10sec $\pm$ 3sec, the maximum is 15min $\pm$ 2min.



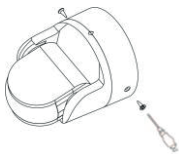
## Installation: (see the diagram)

- \* Switch off the power
- \* Loosen the base (figure A) with a screwdriver on the side, open the wiring cavity and feed the mains supply through the base.
- \* Connect power and load wire into connection-wire column according to the connecting figure C.

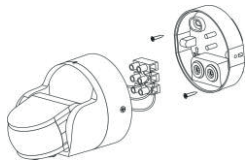
**Note:** The terminal block can be removed for easy installation.

- \* Fix the mounting base with supplied screws to the wall Figure B. Attach sensor to base.

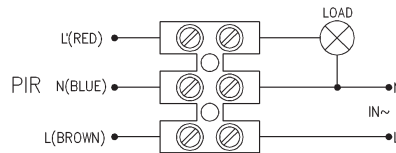
**Figure A**



**Figure B**

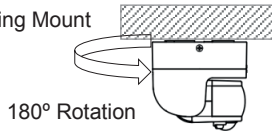


**Figure C**

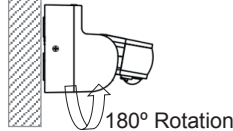


## MOUNTING OPTIONS

**Ceiling Mount**



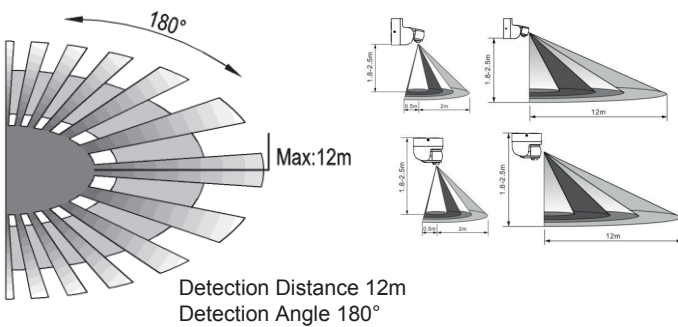
**Wall Mount**



## NOTE:

- \* Should be installed by electrician or experienced person.
- \* Install the object on a solid vertical or horizontal surface.
- \* There should be no hindrance/moving objects in front of the detection windows that could affect detection.
- \* Install at least 0.5m away from moving objects, reflective surfaces or other light sources.
- \* Avoid installing near air temperature zones such as air condition units, central heating, etc.
- \* If the unit is damaged in any way consult a licensed electrician.

## SENSOR RANGE



## TEST:

\* When testing daylight, set the TIME dial to the "-" symbol and the LUX dial to the "+" symbol. After 30 seconds the sensor should respond to presence and turn on and then off after the set 10 seconds.

\* To set the sensor for the nighttime during the day turn the LUX dial towards the "-" and cover the sensor face to simulate darkness.

\* To override Sensor Function, quickly switch the power off/on off/on twice at the wall switch (less than 3 seconds). Your light should now be on MANUAL MODE and stay on permanently.

\* To change back to AUTO MODE, turn the power OFF and wait for 10 seconds, then turn it back ON again. Please note that at this time the light will turn ON for 10-20 seconds and turn OFF again – at this point it will return to AUTO/SENSOR MODE.

**Note: when testing in daylight, please turn LUX dial to "+", for best results!**

## PROBLEM SOLVING:

\* The light does not work:

- Ensure the unit has been wired correctly.
- Ensure there is a power supply.
- Check the ambient light setting.

\* The sensitivity is poor:

- Check that there are no obstacles near the sensor.
- Check if the ambient temperature is too high.
- Check the installation height corresponds to the height showed in this instruction.
- Check the sensor orientation.

\* The light will not turn off:

- Check if there are obstacles in the detection field.
- Check if the time delay is on the longest setting.
- Check if the power corresponds to the instruction.
- Check if there is any temperature (air flow etc.) near the sensor, such as air condition or central heating etc.