PRESENCE SENSOR

Manual

Movement

Shake

Breathe

Introduction:

This sensor is used 24GHz microwave presence technology, can detect large movement and small movement, such as hand movement, shake head and fluctuate when breathe. there is a relay to control on and off when there is movement.

SPECIFICATION:

Power Source: 120V/AC-277V/AC

Power Frequency: 50/60HZ

Ambient Light: 10LUX/30LUX/100LUX/ DAY 24H(Adjustable)

Time Delay: 10sec/1min/5min/15min (adjustable)

Rated Load: Max. 2000W 1000W LED

Detection Range: 360° Ceiling/180°Wall

Detection Distance: Max 3-4m(radius) movement signal such as hand moving, shake head. 2-3m(radius)breathe signal.

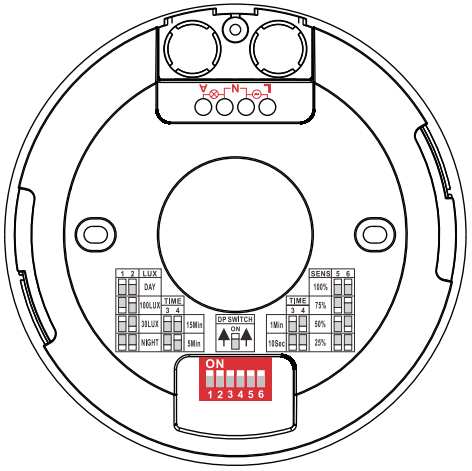
Working Temperature: -20~+40°C

Working Humidity: < 93%RH

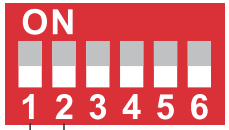
Power Consumption: approx0.90W

Installation Height: 2.2-4m

Setting:

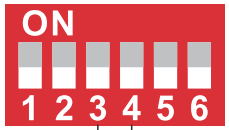


1 Daylight Sensor



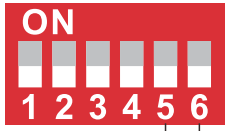
	1	2	range	Ambient light
I	OFF	OFF	<10Lux	very dark
II	ON	OFF	<30Lux	dark
III	OFF	ON	<100Lux	slight light
IV	ON	ON	DAY	whole day

2 Hold Time



	3	4	delay time
I	ON	ON	15Min
II	OFF	ON	5 Min
III	ON	OFF	1 Min
IV	OFF	OFF	10sec

3 Detection Area



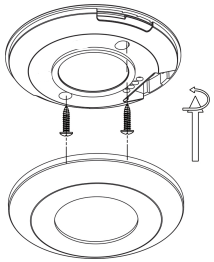
	5	6	sensitivity	detect breathe
I	ON	ON	100%	25m² (5x5m room)
II	OFF	ON	75%	16m² (4x4m room)
III	ON	OFF	50%	4m² (2x2m room)
IV	OFF	OFF	25%	1m² (1x1m room)

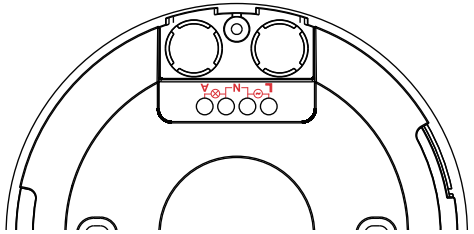
CONNECTION:

WARNING

Warning. Danger of death through electric shock!

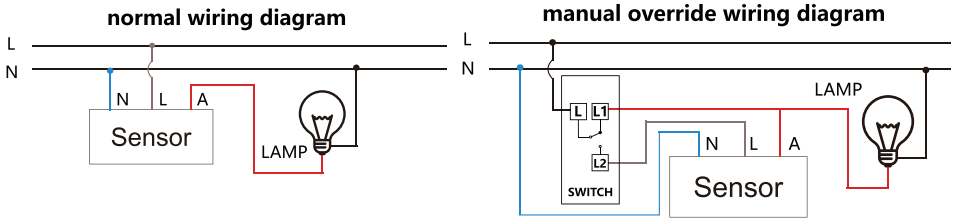
- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shied any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.



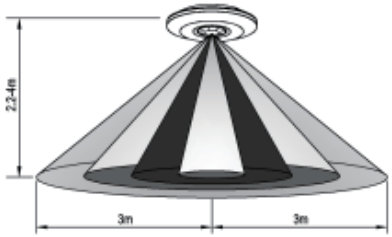


- Please remove the upper cover with anti-clockwise whirl as per the diagram on the right.
- Connect the power and the load according to the connection-wire diagram.
- Fix the bottom on the selected position with the inflated screw.
- Install back the upper cover on the sensor, then you could switch on the power and test it.

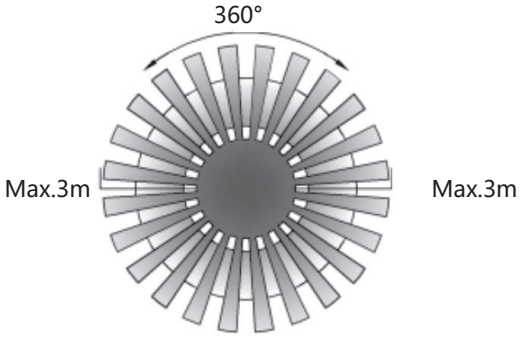
wiring diagram:



SENSOR INFORMATION:



Height of installation:2.2-4m



Detection Distance: Max. 6 m

NOTE: The detection sensitivity is closely related to the height of the person under test, the moving speed, the installation postion of the sensor, whether there is a barrier, and the reflection of metal or glass. the above data is the installation height of 3m, the height of the tester is 165cm,the moving speed is 0.3m/s, the human body is facing the sensor installation point, and the measurement is for reference only. Select the sensitivity based on the onsite installation enviroment.

SOME PROBLEM AND SOLVED WAY

Malfunction Phenomenon	Reason	Solution
Sensor false triggering or cannot turn off	Sensor can be tested through the glass or wood or nonmetallic substance	Turn down the sensitivity
	Sensor install close to wireless devices	Stay more than 2 meters away from the wireless equipment
	Vibration or buffeting signals in the installation environment	1 Make sure there are no other movement signals in the space such as vibrating devices, fans shaking their heads, curtains swinging 2 Make sure there are no other movement signals in the space such as vibrating devices, fans shaking their heads, curtains swinging
The sensors can't detect anyone	Installation location beyond the respiratory signal coverage area	Adjust installation position
	The installation position is behind or on the side of the user	Adjust the installation position Install in front of the person
	The microwave signal was blocked by obstacles	Adjust installation position away from obstacles
	Ambient light illumination more then the set LUX of sensor	1 Check the environment for other luminous objects or lamps 2 Adjust the lux or disable the test funtion of ninght and dark
sensor can not work	The input-output connection is reversed, causing damage	Change a new sensor
	The load exceeds the sensor rated power or load surge current limit	Change a new sensor