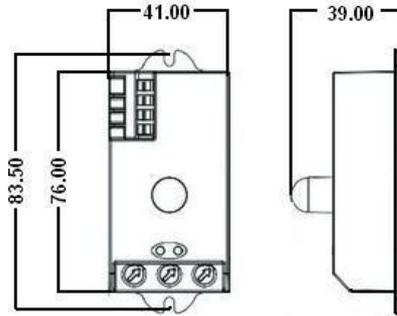


# Microwave sensor YYDZ-3-AC instruction

## APPEARANCE AND SIZE

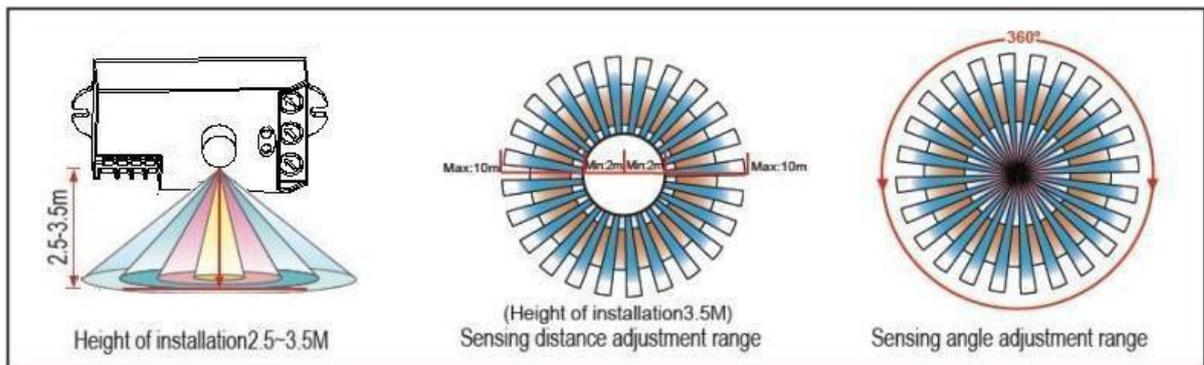


## TECHNICAL SPECIFICATIONS

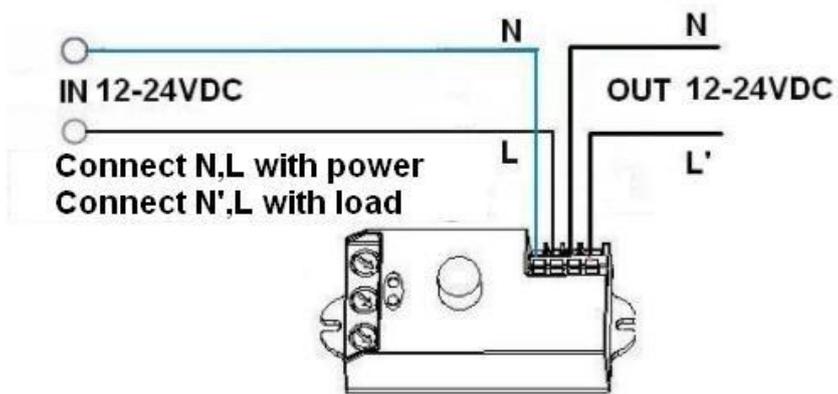
Working voltage: AC220V-240V, 50/60HZ  
Frequency system: 5.8GHz CW radar  
Transmission power: <math><0.2\text{mW}</math>  
Power consumption: <math><0.5\text{W}</math>  
Power load: 1200W  
Time delay: 8 seconds to 12 minutes  
Detection angle:  $360^\circ$   
Light source control: 2-2000LUX  
Installation method: indoor, ceiling installation

**NOTE:** The high-frequency output of this Sensor is <math><0.2\text{Mw}</math>-that is just one 5000<sup>th</sup> of the transmission power of a mobile phone or the output of a microwave oven.

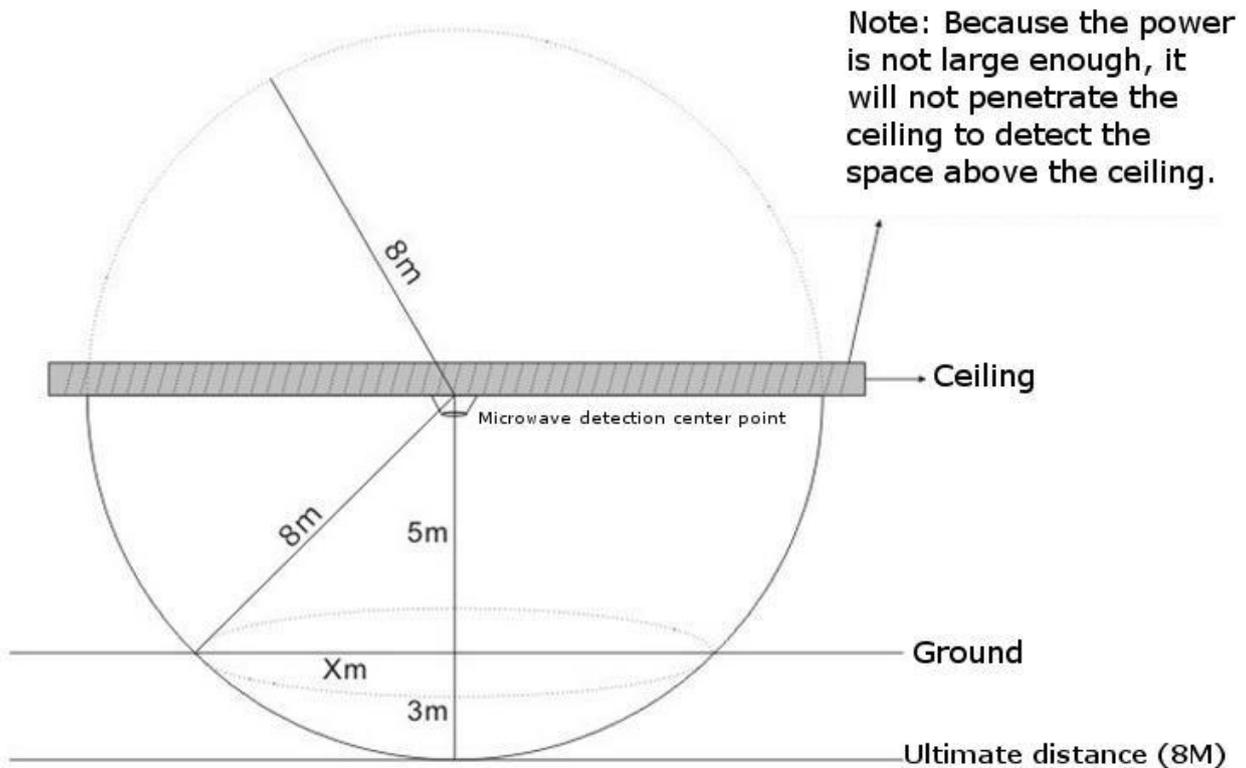
## INDUCTION RANGE



### Connection illumination



## Calculate the actual horizontal detection distance method



As shown, the actual detected horizontal distance can be calculated.

$$5^2 + X^2 = 8^2 \longrightarrow X^2 = 8^2 - 5^2$$

$$\longrightarrow X = \sqrt{64 - 25} \approx 6.24\text{m}$$

### Reach setting (sensitivity)



Reach is the term used to describe the radius of the circular detection zone produced on the ground. After mounting the sensor light at a height of 2.5m, turn the reach control completely in anti-clockwise direction to select minimum reach (approx.1 m radius), and turn the reach control completely in a clockwise direction to select the maximum reach (approx.10m radius).The LED indicator will flash when the reach control is rotated . It flashes 1 to 10 times, representing 1m to 10m for the radius of the detection zone.

**NOTE: The above detection distance is measured using a person who is between 1.6m~1.7m tall with an average build, moving at a speed of 1.0~1.5m/sec. if any of these variables are changed, the detection distance will also resultantly change.**

### Time setting



The light can be set to stay ON for any period of time between approx. 10sec (dial turned fully anti-clockwise) and a maximum of 30min(dial turned fully clockwise). Any movement detected during the "on" time will reset the timer. The LED indicator will flash when adjusting

the time setting dial. The number of flashes means the following: 1 flash = 10sec, 2 flashes= 1 min, 3 flashes= 2 min, 4 flashes= 5 min,5 flashes=8 min, 6 flashes=10 min, 7 flashes=15 min, 8 flashes=20 min,9 flashes=25 min,10 flashes=30 min.

**NOTE: After the light switches off, it takes approx. 1sec before it is able to start detecting movement again. The light will only switch on in response to movement once this period has elapsed.**



### Light-control setting

The chosen light response threshold can be infinitely from approx. 2-2000lux. Turn it fully anti-clockwise to select dusk- to-dawn operation at about 2 lux. Turn it fully clockwise to select daylight operation at about 2000lux. The knob must be turned fully clockwise when adjusting the detection zone and performing the walk

test in daylight.

### Troubleshooting

Malfunction	Cause	Remedy
The load will not work	• wrong light-control setting selected	• Adjust setting
	• load faulty	• Change load
	• mains switch OFF	• Switch ON
The load work always	• continuous movement in the detection zone	• check zone setting
The load work without any identifiable movement	• the sensor not mounted for detecting movement reliably	• securely mount enclosure
	• movement occurred, but not identified by the sensor(movement behind wall, movement of a small object in immediate lamp vicinity etc.)	• Check zone setting
The load will not work despite movement	• rapid movements are being suppressed to minimize malfunctioning or the detection zone you have set is too small	• Check zone setting