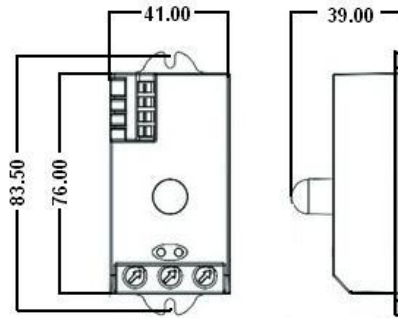


Microwave sensor YYDZ-807-DC instruction

APPEARANCE AND SIZE

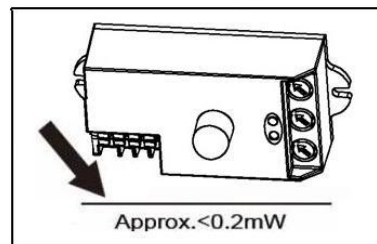


TECHNICAL SPECIFICATIONS

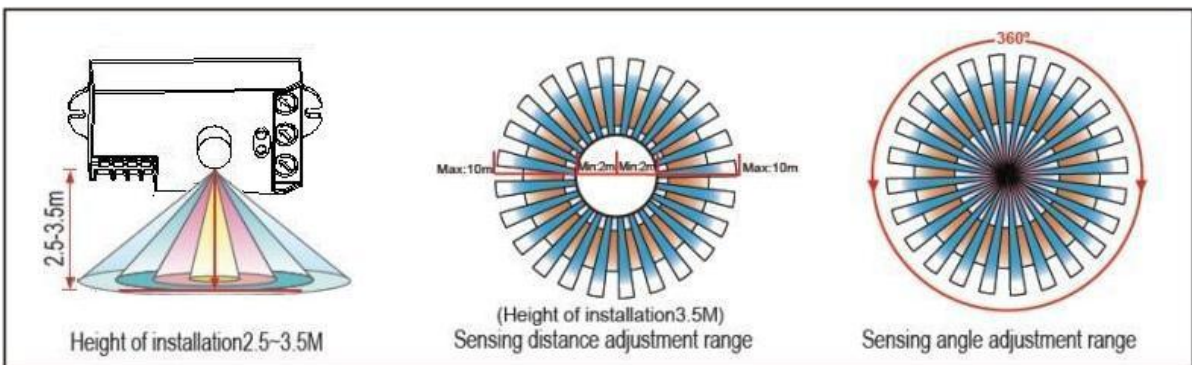
Power supply: 12-24VDC
 Output Power: 12-24V DC
 Max load: 7A
 HF system: 5.8GHz CW radar, ISM band
 Transmission power: <math><0.2\text{mW}</math>
 Power consumption: approx.0.5W

Installation sit: indoors, ceiling mounting
 Reach:1-10m (radii.) , adjustable
 Time setting: 10sec to 30min
 Detection angle: 360°
 Light control: 2~2000LUX

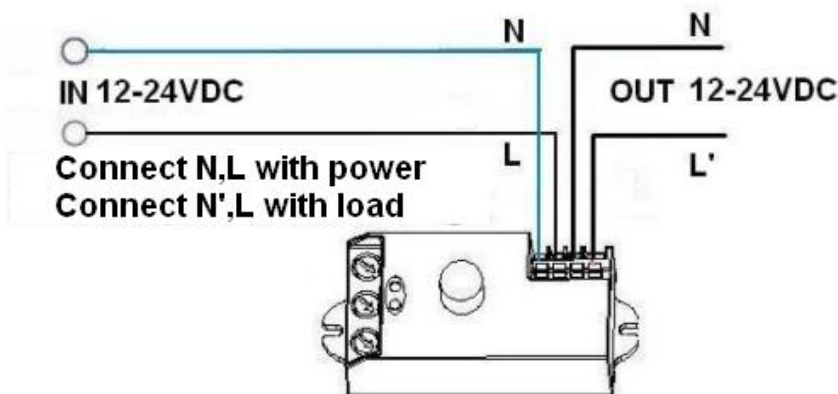
NOTE: The high-frequency output of this Sensor is <math><0.2\text{mW}</math>-that is just one 5000th of the transmission power of a mobile phone or the output of a microwave oven.



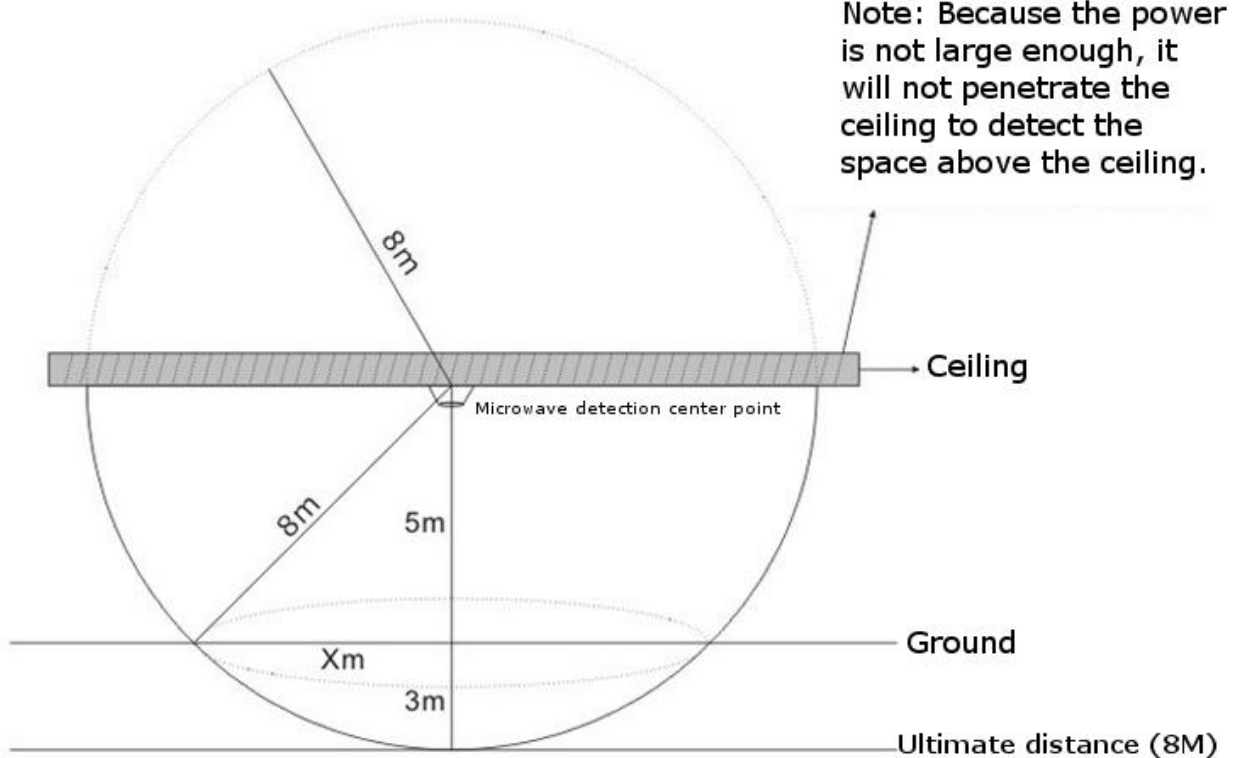
INDUCTION RANGE



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