

# MICROWAVE SENSOR USER GUIDE

The multifunctional sensor is suitable for all kinds of automatic door

## Technical datas:

Technical: wave & CPU

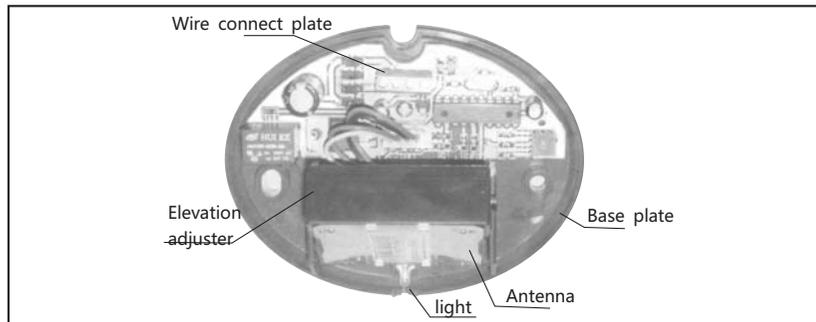
- Detection principle: Doppler
- Frequency: 10.525Ghz
- Frequency density:  $<<5\text{mW}/\text{cm}^2$
- Installation height: Max 3m
- Radiation angle: level  $120^\circ$ , vertical  $80^\circ$
- Detection range : 4m(W) 3 m(D)
- Detection mode: motion
- Motion detection speed: Min. 5cm/5
- (test along the longitudinal axis of antenna)
- Adjust detection range: adjust planar antenna elevation

Adjust detection sensitivity: adjust potentiometer

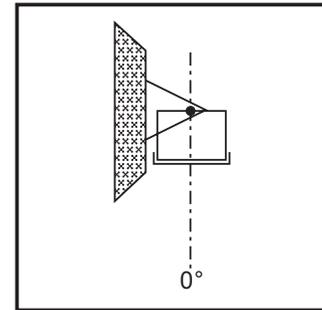
Environment temperature:  $-20^\circ\text{C}\sim+55^\circ\text{C}$

- Anti-interference: EMC comply with 89/336EEC
- Power voltage: 12~24V AC or DC
- Power frequency: 50~60Hz
- Power consumption:  $< 2\text{W}$
- output: standard relay
- Max. power voltage AC220V, DC28V
- Max. Power current 1 A
- Hold-output time 1 S
- Size: 115x90x65(mm)
- Weight(including wire): 220g
- Material: ABS plastic
- Color: silver gray
- Wire length: 2.5m

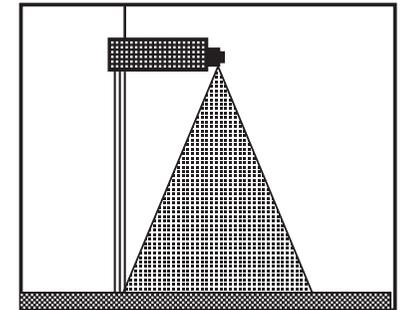
## Structure:



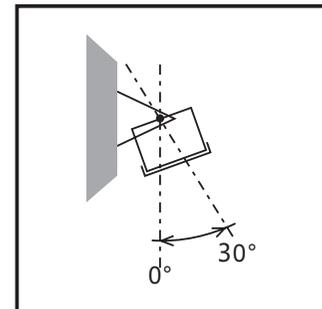
## Detection range under antenna longitudinal angle



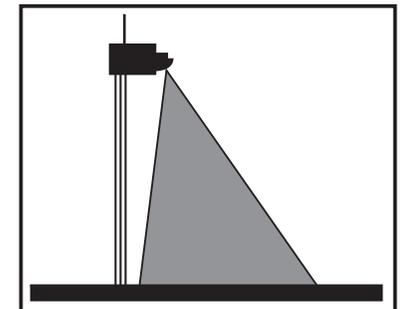
▲ Near to the door :  
adjust antenna angle to min. 0



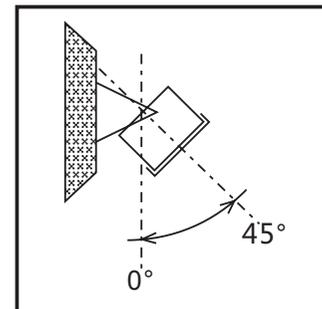
Operation illustration with a too far distance



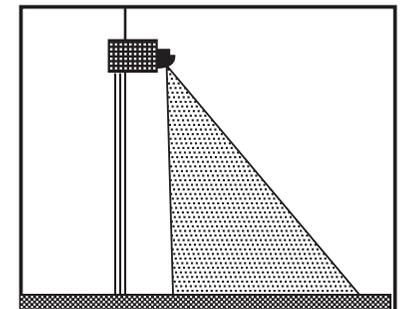
▲ Near to the door :  
adjust antenna angle to 30°



Normal operation illustration



▲ Far from the door :  
adjust antenna angle to max. 45°



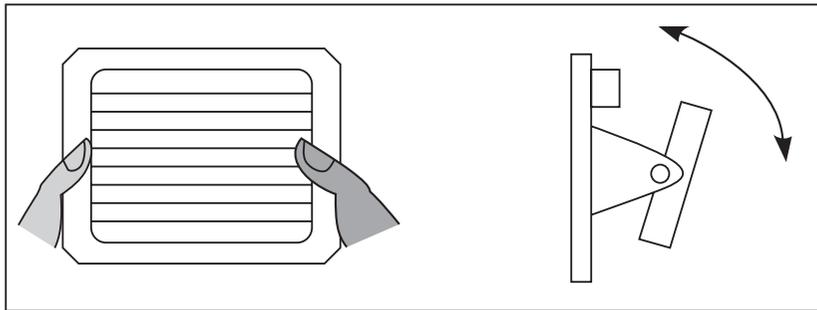
Normal operation illustration

## Adjust detection range

Remark: The detection range has been tested before sale, the adjustment is required only under special situation.

Adjustment method:

Press the edge of the antenna by hands and rotate the fixed axis.

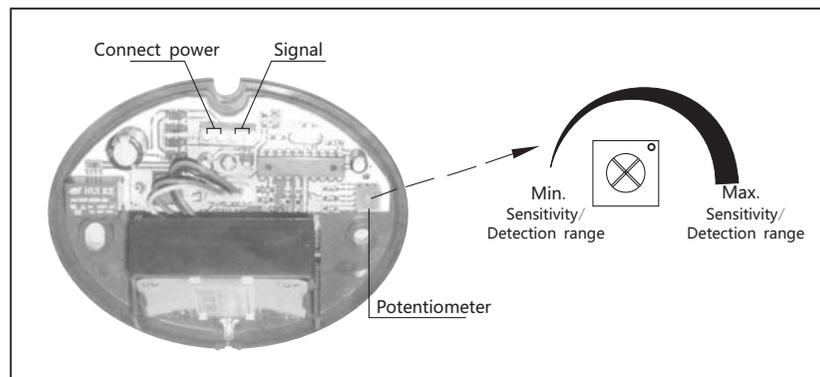


## Adjust sensitivity:

Remark: It need to adjust only when the sensor is not sensitive or the detection range is small.

Adjustment method:

Adjust the potentiometer by using mini-screwdriver, turn right to increase detection range and sensitivity, otherwise decrease.

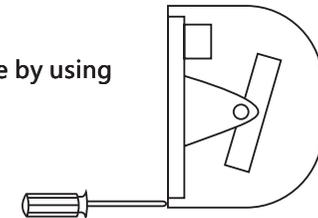


## Installation guide :

1. Caution: don't allow to press the antenna surface during installation.
2. Fix the sensor tightly for vibration prevention.
3. Don't put the motion or vibration objects in the detection range.

## Open the sensor cover:

- Open the cover from the base plate by using a blade screwdriver.



## Wire connection

- Connect the wire goes through the hole to terminal.

