

US—PS1

Radar sensor for automatic door

Description

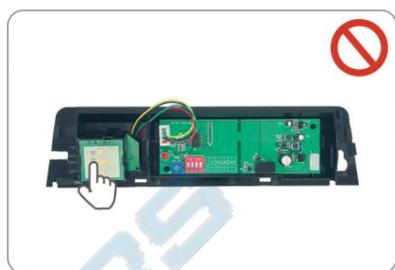


1. Cover
2. Radar module
3. LED
4. Potentiometer
5. Dip switch
6. Electrical connector

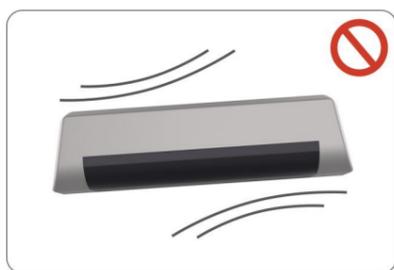
Technical Specifications

| | |
|--------------------------|------------------------------------|
| Technology | Microwave doppler radar |
| Transmitted frequency | 24,125GHz |
| Mounting height | 1.8 m to 5 m |
| Density of emitted power | <5 mW / cm ² |
| Detection mode | Motion |
| Min. detection speed | 5 cm/s |
| Supply voltage | 12 V to 24 V DC +/- 10% |
| Consumption | < 2 W (VA) |
| Material | ABS & Polycarbonate |
| Degree of protection | IP54 |
| Temperature range | -30 °C to + 60 °C |
| Dimensions | 202 mm (L) x 39 mm (H) x 55 mm (W) |
| Angle of inclination | 15 ° to 45 ° (vertical direction) |

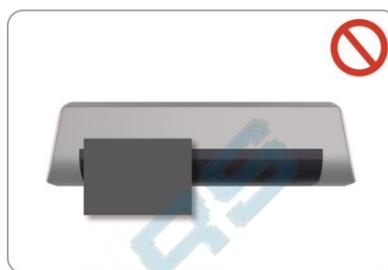
Tips



Do not touch electrical parts



Avoid vibrations



Do not cover the sensor



Avoid proximity to neon lamps or moving objects

1. OPENING THE SENSOR



Before fixing



After fixing

2.MOUNTING AND WIRING

①



Apply the mounting template to drill holes

②

Connect the cable and insert it through the hole.

Connect the wires as follows:

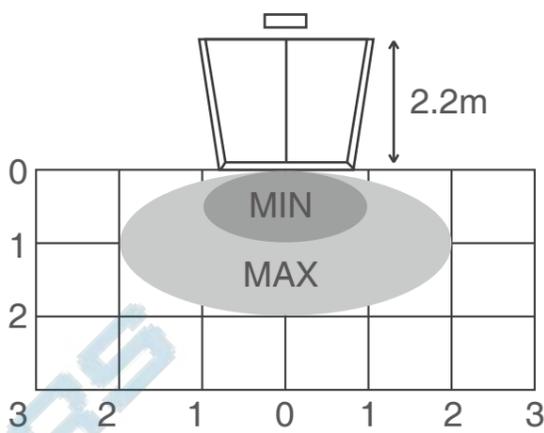
- Brown — Power supply
- Green — Power supply 12-24V AC/DC
- White — COM
- Yellow — NO

③

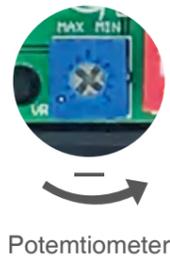


Fix the sensor firmly

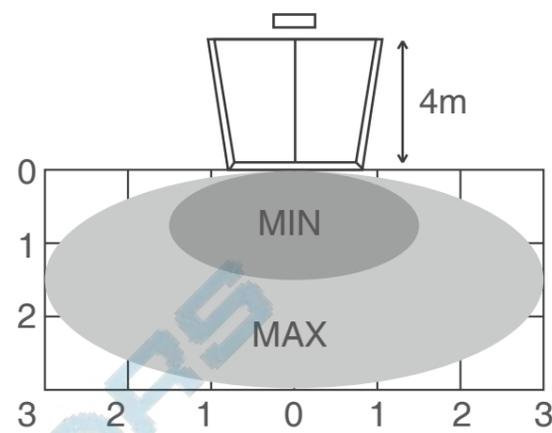
3.FIELD ADJUSTMENT



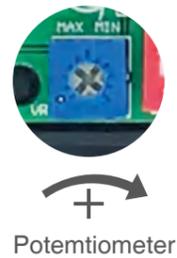
Mounting angle: 30°



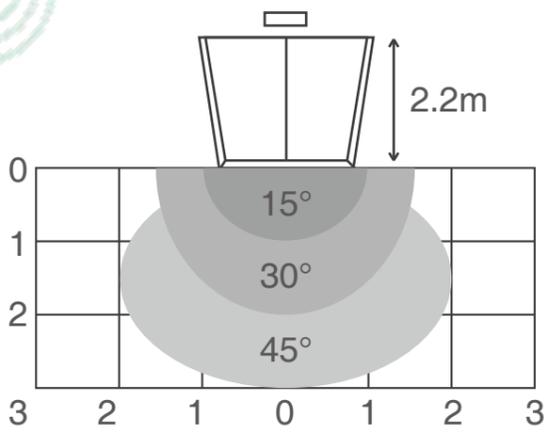
Potentiometer



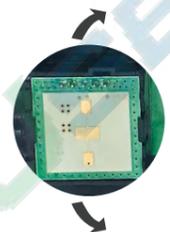
Mounting angle: 30°



Potentiometer



Vertical direction



| | S1 | S2 | S3 | S4 |
|-----|--------|-------------|---------------|--------------|
| | HEIGHT | SENSIBILITY | OUTPUT SWITCH | UNIDIRECTION |
| ON | 4M | HIGH | NO | X |
| OFF | 3M | LOW | NC | ✓ |

Function switching

Troubleshooting

| Fault | Possible cause | Solution |
|--------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| The door remains closed and the LED is off | The sensor power is off | Check the wiring and the power supply |
| The door closes and opens constantly | The sensor is disturbed by the closing of the door or vibrations caused by the door motion | 1) Make sure the sensor is fixed firmly 2) Adjust the antenna angle 3) Decrease the field size |
| The door opens for no apparent reason | In highly reflective environments, the sensor detects objects outside of detection field. | 1) Adjust the antenna angle 2) Decrease the field size |