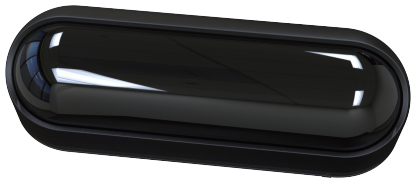
Microwave Motion Sensor (HR900)

Instruction Manual

FCC ID : 2A3C4-MS905

HR900 is a high-performance, 24GHz K-Band microwave motion sensor specifically designed for the activation of automatic doors.
For the safe and accurate use of this product please read this instruction manual carefully.

1 Introduction

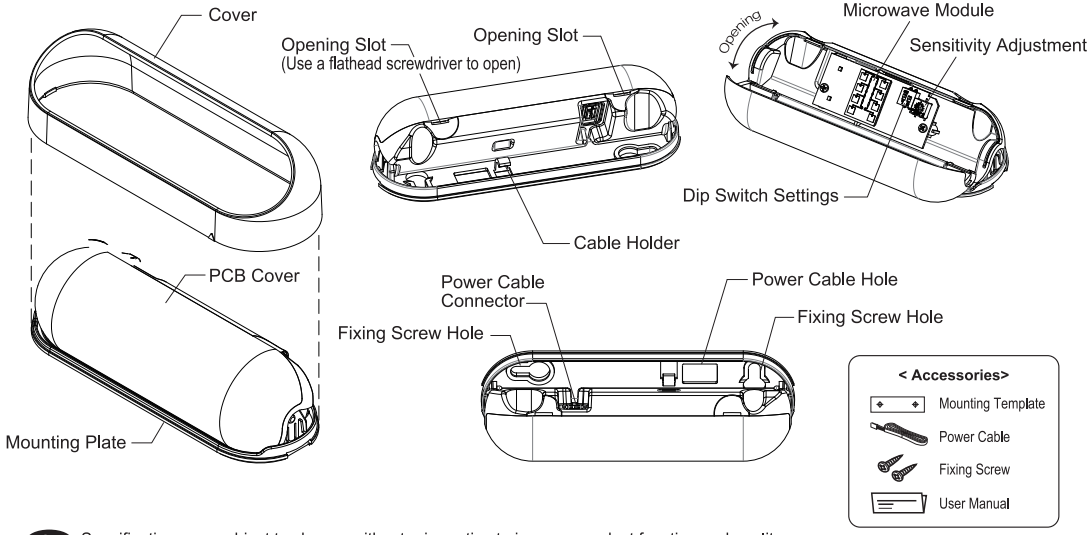


- 24GHz K-Band microwave motion sensor.
- Dip switch settings of Uni or Bi-directional detection.
- NO or NC dip switch settings.
- Adjustable detection area through sensitivity and antenna angle adjustments.
- Operating Temperature: -40°C to 85°C

2 Technical Specifications

Power Supply : DC 12~30V, AC 12~24V
Microwave Module : 24.150 ~ 24.250GHz
Contact Hold Time : 1 second
Detection Area : 4m(W) x 2m(D)
(Height: 2.3m, Lowest Angle/Highest Sensitivity)
Current Consumption : 42mA(DC12V, +25°C)
Contact Capacity : 100mA 400V AC/DC
Max Installation Height : 3.2m
Operating Temperature/Humidity : -40°C~85°C R.H.0%~95%

3 General Information

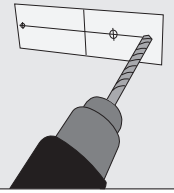


NOTE Specifications are subject to change without prior notice to improve product function and quality.

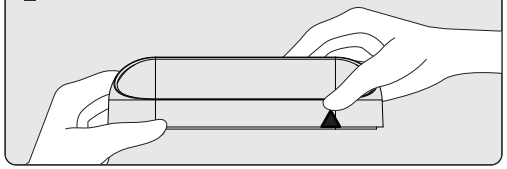
4 Installation Guide

※ Be aware of electric shock

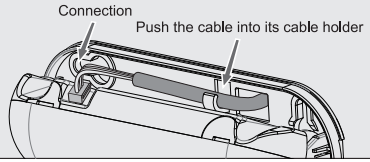
1 Apply the mounting template to the door engine cover and drill the fixing screw and power cable holes.



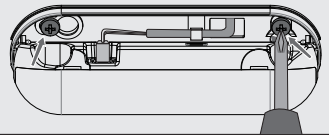
2 Lift the Cover in the direction of the arrow.



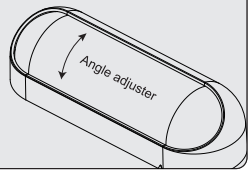
3 Connect the power cable.



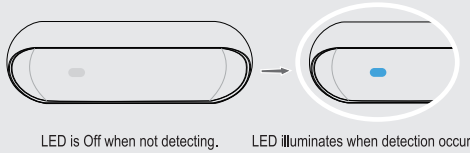
4 Attach the Mounting Plate to the door engine cover with the fixing screws provided.



5 Attach the Cover and adjust the detection area to suit the installation environment as illustrated.



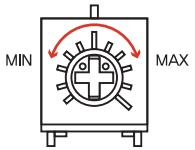
6 LED Indicator



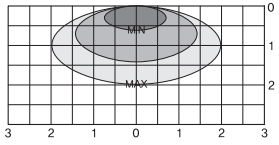
⚠ Do not supply power during installation. Do not disassemble or modify the device as it may cause fire or electric shock.

5 Sensitivity Setting

Open the PCB Cover and set the desired sensitivity using the potentiometer.



(Height: 2.3m, Minimum Angle)



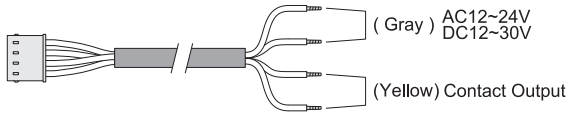
6 Operation Mode Settings

Open the PCB Cover to configure your desired settings.

DIP switch	Position	Mode	Operation
No. 1 (Left)	Up	BI	Detects movement towards and away from the sensor
	Down	UNI	Detects movement towards the sensor only
No. 2 (Right)	Up	NC	Normal Close relay contact
	Down	NO	Normal Open relay contact

7 Wiring Diagram

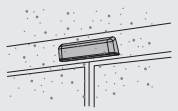
2 power wires & 2 relay contact wires.



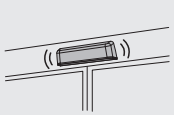
8 Mounting Precautions

1 Avoid moving objects close to the sensor.

2 Avoid heavy rain and snow.



3 Avoid vibration.



4 Avoid fluorescent light sources.