Automatic Electronic Microwave Door Sensor

eSenlite Model: EE124GMW (24.125GHz)
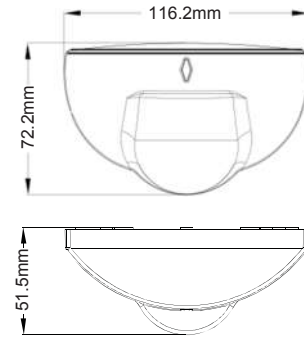
116.2mm

72.2mm

51.5mm

Black☐   Silver☐   Golden yellow☐

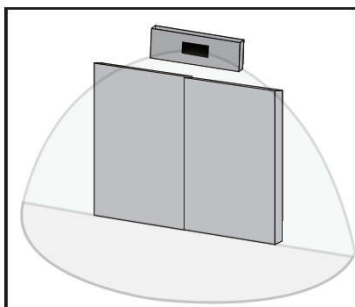| Packing list in	Φ6 Plastic expansion	3x30 Screw	Instruction	Cable
Quantity	2X	2X	1X	1X

Backed by FFT arithmetic program, the sensor is featuring with high accuracy of detection within long distance and strong anti-interference capacity. Using the original Omron relays, which has an ultra-small compact arrangement, low power consumption, and extraordinary reliability, this unit completely outperform the common photoelectric-output components in the market. This product is a good fit for different types of auto-door-controller. It can also be employed as human/movement detecting device for access control systems, lighting control and so on.
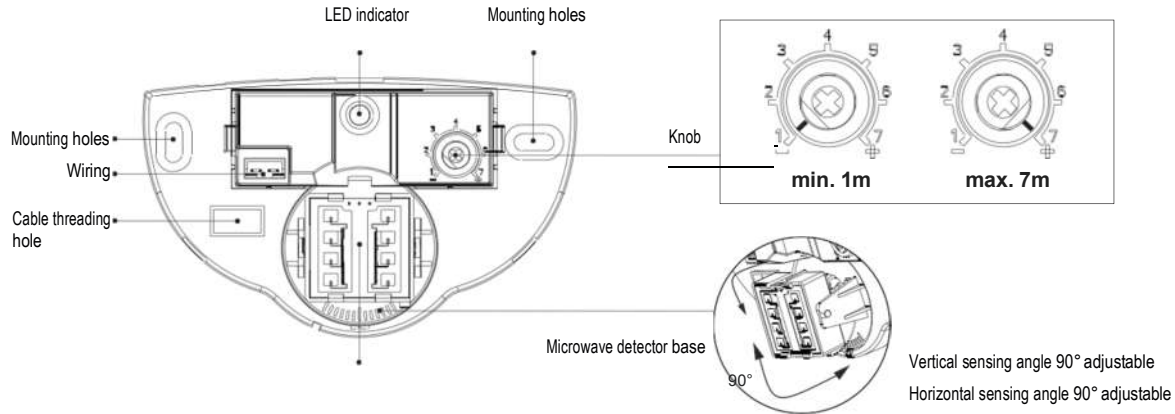
Specifications

Operating power:	AC: 10-24 AC/50Hz DC: 12-35 DC
Standby current:	<13mA
Working current:	25mA
Relay Output:	35V/0.5A
Output Duration:	500ms
HF system:	24.125GHz CW Microwave. K band
Cover color:	Black/Silver/Golden selectable
Installation:	Wall mount
Mounting height:	2.0m to 3.5m
Detection angle:	90°
Detection range:	1m (max sensibility, probe perpendicular to the ground) 7m (max sensibility, probe forward)
Power consumption:	Approx. 1W

Working temperature: -20°C~50°C
Working humidity: <93%RH

Door

2.0m to 3.5m

Detecting zone   *Detecting zone*

Max 7M   adjust   Min 1M   Min 1M   adjust   Max 7M
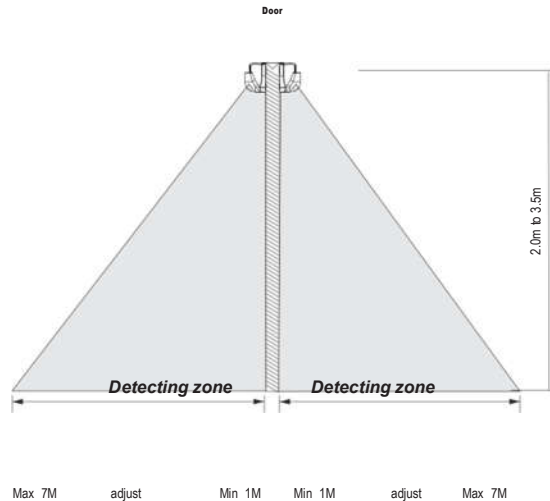
Sensitivity/Range can be adjusted as request

Setup reference in details

LED indicator Mounting holes

Mounting holes

Wiring

Cable threading hole

Knob

min. 1m   max. 7m

Microwave detector base

90°

Vertical sensing angle 90° adjustable

Horizontal sensing angle 90° adjustable

Sensitivity/Range setup

Turn the knob counterclockwise to decrease sensitivity/detection distance (minimum: approx. 3'/1m), clockwise to increase the sensitivity/detection distance by up to 25'/7m (Max). If person's position, figure and moving speed change, the detection will also change. For example, higher speed will lead to shorter detection distance. The detection distance is the distance that adjust when detector face the front. When the sensor is installed, please adjust the sensing angle and distance based on the practical scenario. Please avoid to setting the detection distance too long, in case pedestrian and cars will trigger the sensor by mistake. Just ensure the enough sensing distance to open the door.

Notice: when using this product, please adjust the sensitivity (detection range) to an appropriate value, instead of keeping at maximum level, to avoid the unnecessary trigger caused by blowing leaves & curtains, small animals or the interference of power grid & electrical equipment, which all could lead to error reaction and false trigger. If the unit does not work as described, please try to lower the sensitivity appropriately first for testing. Human movement will cause the sensor induction as well. Therefore, during function testing, please keep away from induction region. Do not make movement to prevent the sensor from continuously working.

Procedure of installation

➢ Step1. Remove the cover before installation. (as Fig5.)

➢ Step2. Mark the hole position with a pencil after determining where you want to install the product.

  Note: If it is a wooden wall, there is no need to use plastic expansion screw, just fasten the screw with the screwdriver.

➢ Step3. Drill holes on the walls where there is pencil mark by using electric drill and get the plastic expansion inside the hole.

➢ Step4. Connect the cable to the product through the cable entry openings (output: NO; Input: 12-35VDC/10-24VAC). (as Fig6.)

➢ Step5. Using the screws install the base on the selected position and adjust the knob. (as Fig7.)

➢ Step6. Fasten the cover to the base which has been installed on the wall. (as Fig7.)

output(NO) input(12-35VDC)

Fig.5   Fig.6   Fig.7
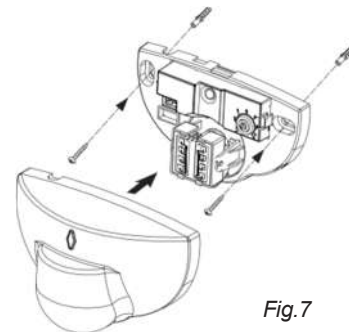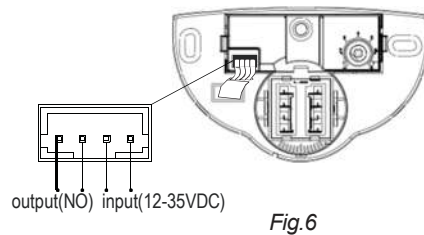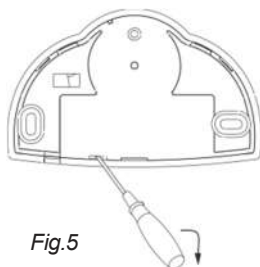
➢ Open to adjust the senor after installation: Insert the screwdriver into the joint between the cover and the base and pry the cover. (Fig.8)

Fig.8

⚠ Warning!

The following situations will lead to error reaction.

1 Being installed on the rocking object will lead to error reaction.

2 The shaking curtain blown by wind will lead to error reaction. Please select the suitable place to install.

3 Being installed where the traffic is busy will lead to error reaction.

4 The sparks produced by some equipment nearby will lead to error reaction