

QL-SMW101R

MICROVAWE BUS SENSOR

The QL SMW101R is a flush mounting microwave motion sensor module. The module sits on the QL NET bus and takes power from the bus. The sensor is activated by motion i.e. speed and size and being microwave technology it overcomes the temperature restrictions faced by normal IR based sensors. The operating temperature of the sensor ranges from -10°C to 60°C. The time delay, detection distance and daylight threshold is adjustable. It emits a high-frequency electromagnetic wave 5.8GHz and receives its echo. The sensor detects the change in echo from movement in its detection zone. A microprocessor then triggers the switch light ON command. Detection is possible through doors, panels of glasses thin walls.

Specifications

Power Supply

12V DC

Power Requirement

Standby : 0.6W

Operational : 1.2W

Detection Range Setting

10%, 25%, 50%, 75% and 100%

Hold Time Setting

10s, 30s, 90s, 20min and 25min

Daylight Threshold Setting

5 lux, 10lux, 20 lux and disable

Sensor Principle

Microwave motion detector



Microwave frequency

5.8GHz +/- 75MHz

Microwave Power

<1mW

Detection Range

Max. (Φ xH) 18m x 5m

Detection Angle

30° - 150°

Mounting Height

Max. 5m

Environment

Ambient Temp : -10°C to 60°C

Relative Humidity : less than 80%

IP Rating

IP20

Safety Regulatory Compliance

CE

Dimensions

107mm (W) x 107mm (H) x 58mm (D)

Weight

250g

QL-SMW101R

MICROVAWE BUS SENSOR

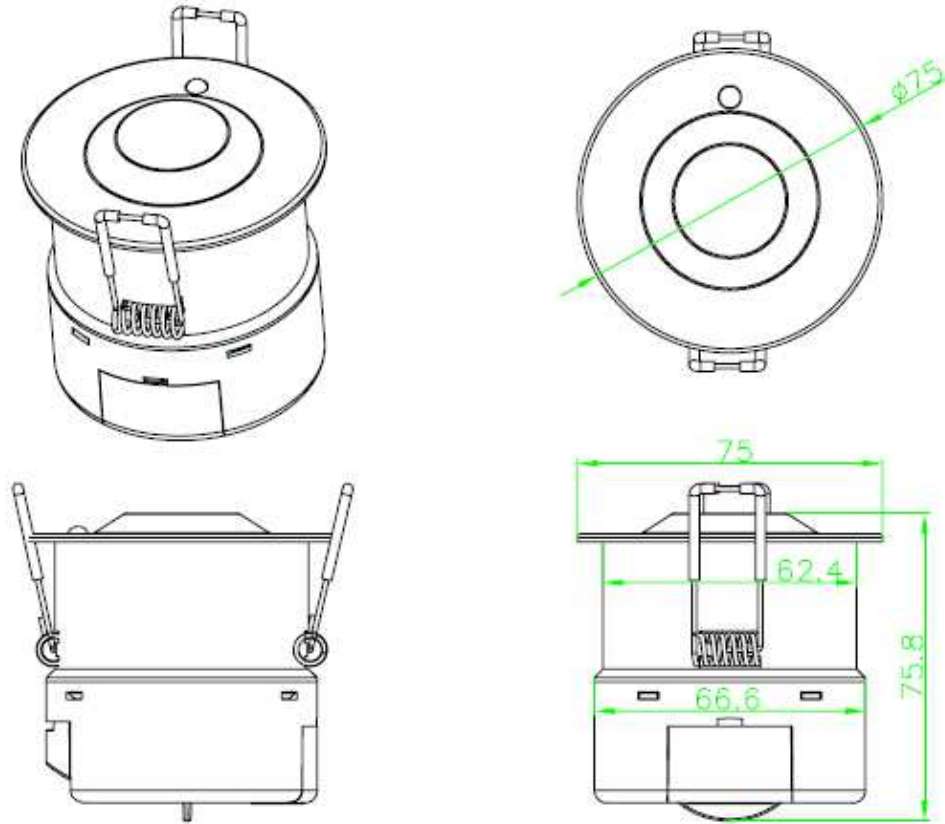


Fig 1. Module Details

	1	2	3	
I	●	●	●	100%
II	○	●	●	75%
III	●	○	●	50%
IV	●	●	○	30%
V	○	○	○	10%

- I - maximum range 100%
- II - 75%
- III - 50%
- IV - 30%
- V - 10%

	1	2	3	
I	●	●	●	5s
II	○	●	●	30s
III	●	○	●	180s
IV	○	○	●	300s
V	●	●	○	15min
VI	○	○	○	25min

- I - Walk test mode 5s
- II - 30s
- III - 180s
- IV - 300s
- V - 15 minutes
- VI - 25 minutes

	1	2	3	
I	●	●	●	2 Lux
II	○	●	●	5 Lux
III	●	○	●	20 Lux
IV	○	●	○	30 Lux
V	○	○	○	Disable

- I - 2 lux darkness operation only
- II - 5 lux darkness operation only
- III - 20 lux twilight operation
- IV - 30 lux twilight operation
- V - *daylight, daylight sensor disabled

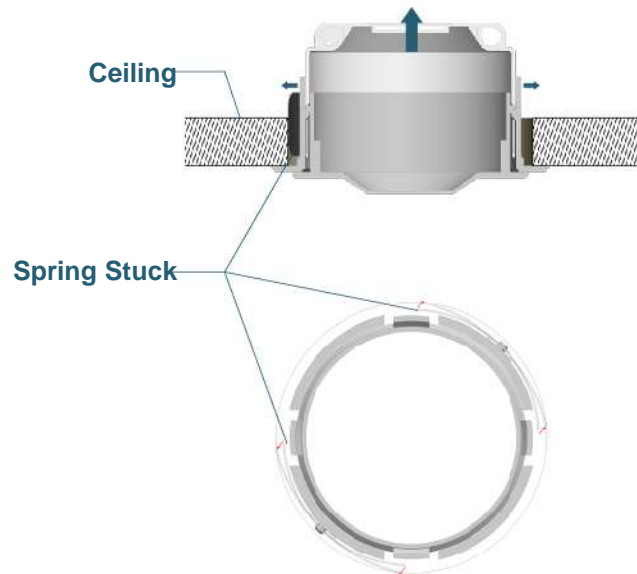


Fig 2. Module Setting and installation details