

# QL-SMW101

## MICROVAWE BUS SENSOR

The QL SMW101 is a 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 -20°C to 60°C. The time delay, detection distance and daylight threshold is adjustable with the help of DIP switches on the sensor.

### Specifications

#### Power Supply

12V DC

#### Power Requirement

Standby : 0.6W

Operational : 1.2W

#### Detection Range Setting

10%, 30%, 50%, 75% and 100%

#### Hold Time Setting

5s, 30s, 180s, 300s, 15min and 25min

#### Daylight Threshold Setting

2lux, 5 lux, 20lux, 30 lux and daylight

#### Sensor Principle

Microwave motion detector

#### Microwave frequency

5.8GHz +/- 75MHz

#### Microwave Power

<1mW

#### Detection Range

Max. ( $\Phi$ xH) 8m x 5m

#### Detection Angle

30° - 150°

#### Mounting Height

Max. 5m

#### Environment

Ambient Temp : -20°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

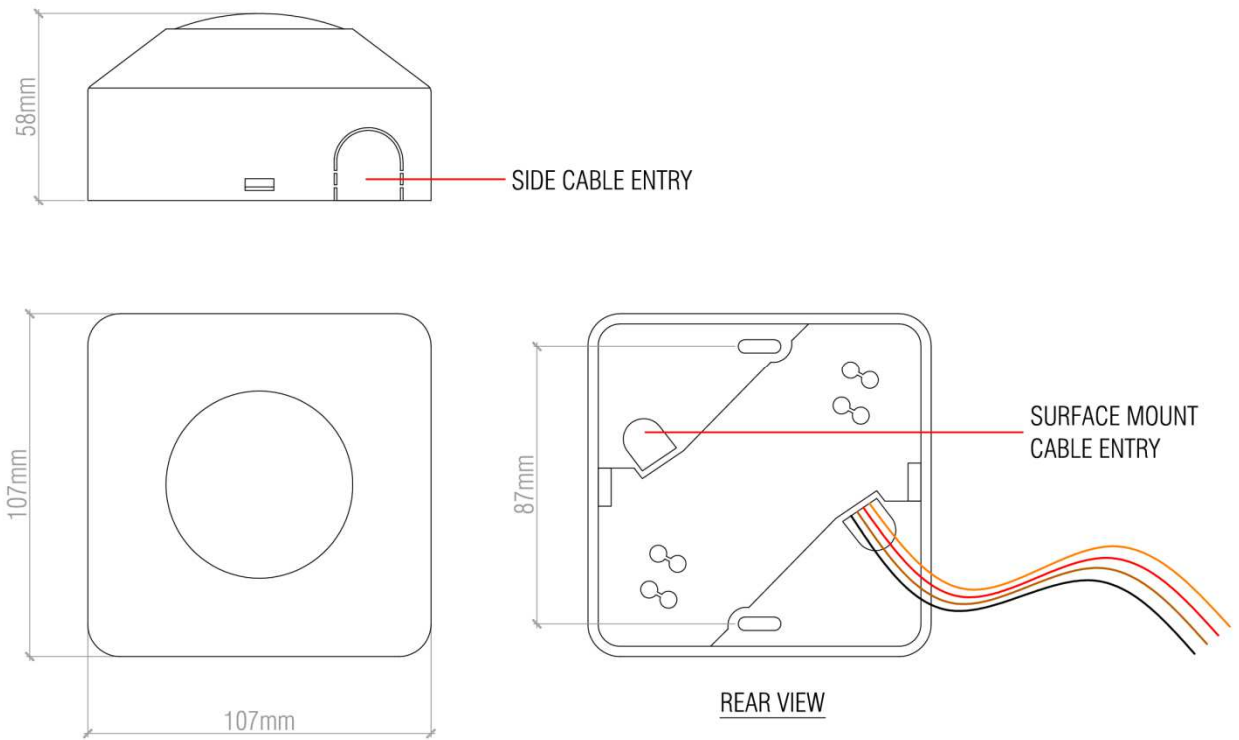
250g



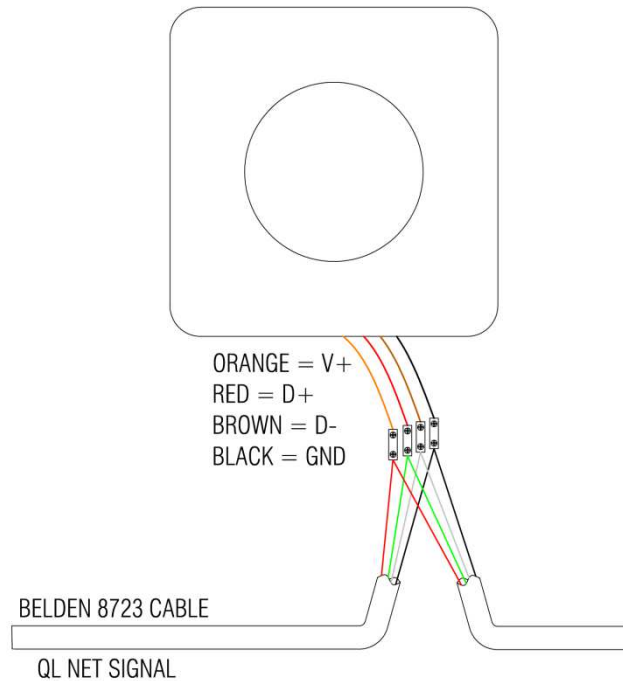
- *Sits on QL NET bus.*
- *Settable delay time, threshold LUX level and Sensitivity*

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**Fig 1. Module Details**



**Fig 2. Module Connection**

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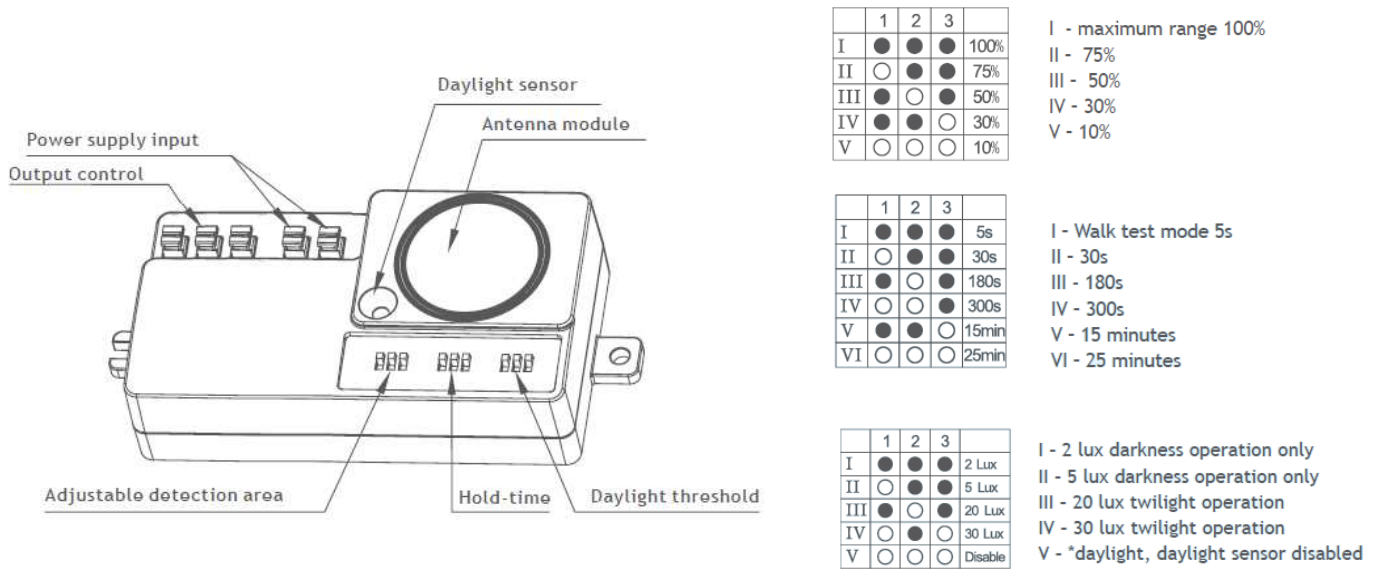


Fig 3. Internal Sensor and Setting Detail

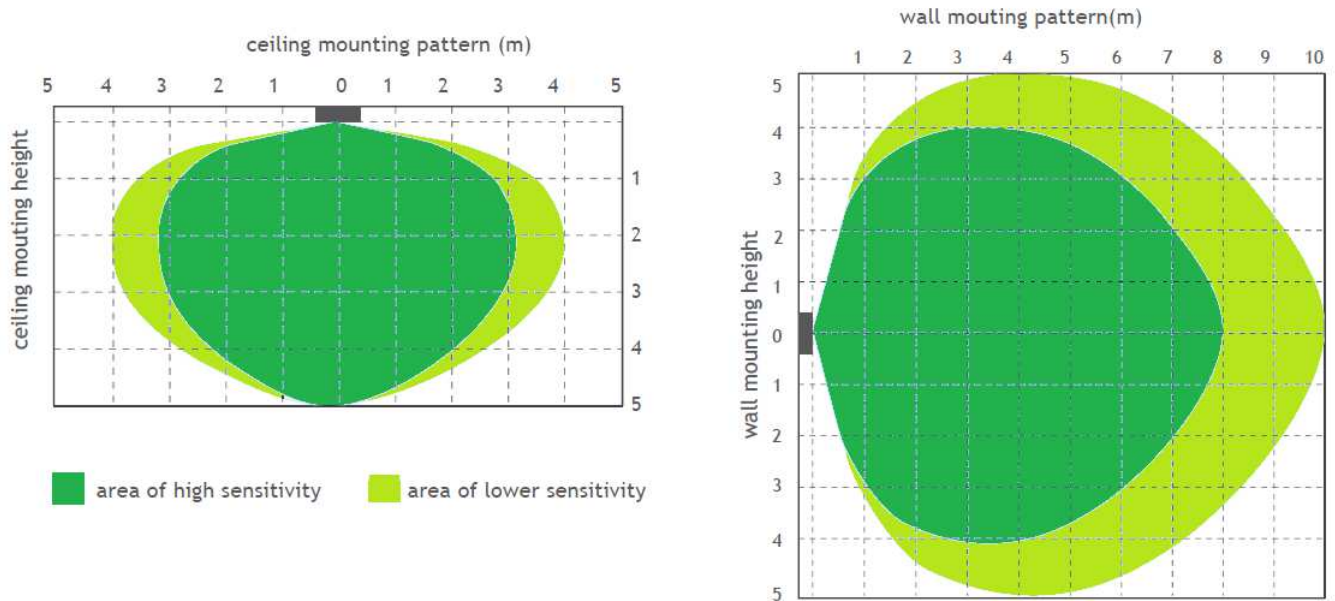


Fig 4. Detection Range