# Occupancy Sensor
## Model No.: MC 603S
## 90600145

Daylight sensor
Work light (Green LED on)
Adjustable detection area
Hold-time
Daylight threshold
Installation hole
OUTPUT
INPUT
220~240V output control
220~240V Input

0.25ft     0.09ft     0.14ft
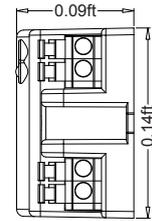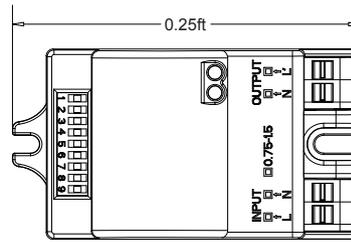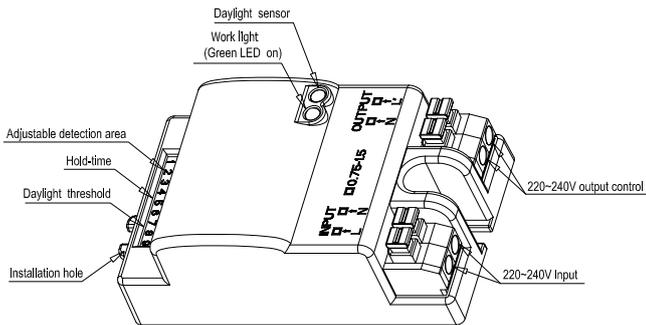
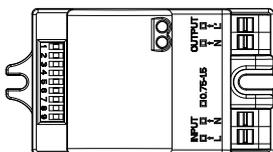(Unit: ft)

## Technical Specifications

| | |
|---|---|
| Operating voltage | 120~277Vac, 50/60Hz |
| Rated load | 400W@220V-277VAC  200W@120VAC(inductive) |
| | 800W@220V-277VAC  400W@ 120VAC(resistive) |
| HF system | 5.8GHz±75MHz, ISM wave band |
| Transmitting power | <0.5mW |
| Power consumption | ≤0.5W(standby) |
| Detection zone | Max.(D x H): 32.8 x 19.7 ft |
| Detection sensitivity | 10%/ 50% / 75% / 100% |
| Hold time | 5s / 30s / 90s / 3min / 20min / 30min |
| Daylight sensor | 2lux / 10lux / 25lux / 50lux / Disable |
| Mounting height | 19.7 ft Max. |
| Motion detection | 0.5~3m/s |
| Detection angle | 150°(wall installation) |
| | 360°(ceiling installation) |
| Operating temperature | -20℃~60℃ |
| IP rating | IP20 |

## General Guidelines for Installation

1, The sensor should be installed by a qualified electrician. And ensure that the electricity supply is switched off before installing or servicing the product.

2, The sensor should not be modified in any way. Any modifications mode to this product will immediately invalidate any warranties issued.

3, The company does not accept responsibility for any consequences resulting from unauthorized modification of the product.

4, The sensor should be connected to a stable power supply of 220/240Vac 50Hz.

5, Microwaves cannot pass through metal or brick walls if thicker than 20cm. They will pass through thinner walls but there will be some attenuation.

6, Installation inside a glass or plastic housing will result in a reduction of detection sensitivity. Expect a reduction of approximately 20% for every 3mm of thickness.

## Installation & Wiring

OUTPUT
INPUT

Pic 1

The sensor has 4-position terminal block as Pic 1:

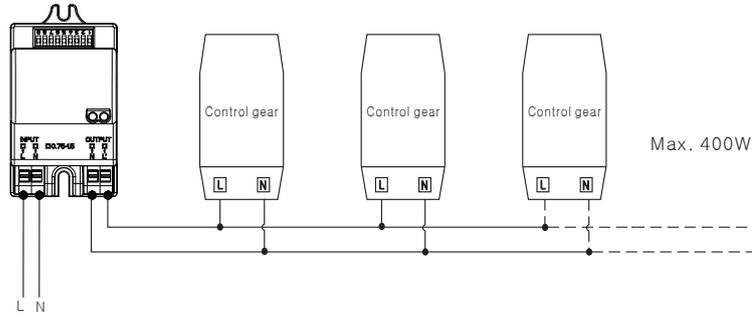L(Phase)   N(Neutral)   L′ (Switched phase / control)

The sensor is designed for installation at 3.3~19.7ft in height.

Suggested mounting height: 3.3~5.9ft (Wall mounting), 8.2~19.7ft (Ceiling mounting).

**Wiring scheme**

Control gear   Control gear   Control gear

Max. 400W

INPUT  DIP SWITCH  OUTPUT

L N

## Settings

Detection area, hold time and daylight sensor can be set using DIP switches on the sensor. Note that reducing the detection area will also reduce the sensitivity.

### 1, Detection area

I: up to 16.4ft

II: up to 11.5ft

III: up to 8.2ft

IV: up to 1.6ft

| ON | | 1 | 2 | |
|----|----|----|----|----|
| | I | ON | ON | 100% |
| | II | — | ON | 75% |
| | III | ON | — | 50% |
| | IV | — | — | 10% |

### 2, Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

I: 5s

II: 30s

III: 90s

IV: 3min

V: 20min

VI: 30min

| ON | | 3 | 4 | 5 | |
|----|----|----|----|----|----|
| | I | ON | ON | ON | 5s |
| | II | — | ON | ON | 30s |
| | III | ON | — | ON | 90s |
| | IV | — | — | ON | 3min |
| | V | ON | ON | — | 20min |
| | VI | — | — | — | 30min |

### 3, Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. The settings are as follows:

I: 2lux, darkness operation only

II: 10lux, darkness operation only

III: 25lux, twilight operation

IV: 50lux, twilight operation

V: Disable*

*When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light levels.

| ON | | 6 | 7 | 8 | |
|----|----|----|----|----|----|
| | I | ON | ON | ON | 2lux |
| | II | ON | ON | — | 10lux |
| | III | — | ON | — | 25lux |
| | IV | ON | — | — | 50lux |
| | V | — | — | — | Disable |

When set to "Const-ant ON", the microwave sensor function is inactive, lights turns on or off by switch.

When set to Sensor, the microwave sensor function is active.

| ON | | 9 | |
|----|----|----|----|
| | I | ON | Const-ant ON |
| | II | — | Sensor |

## FAQ

| Question | Cause | Remedy |
|----------|-------|--------|
| The load will not illuminate. | Incorrect daylight sensor setting selected. | Adjust setting. |
| | Load has failed. | Replace load. |
| | Power is switched off. | Switch on |
| The load is permanently illuminated. | Continuous movement in the detection area. | Check detection area setting. |
| | The lamp (containing sensor) is installed in an area too close to reflective surfaces, i. e. metal, glass or concrete walls. | 1, Make sure installation area suitable with at least 30cm space between lamp and surrounding reflective surfaces. 2, Reduce sensitivity (detection area). |
| The load will not illuminate despite movement. | Speed of moving object is not in the range of 1.64~9.8/s or the detection radius is too small. | Check detection area setting. |

## Compatible List

| Category | Model No. |
|---|---|
| Compatible Vapor Tight | VT-4-34-840-MV |
| | VT-4-34-840-MV-EM |
| | VT-4-51-840-MV |
| LED Wrap Light | WR-4-40-840-MV-D |
| | WR-4-40-840-MV-D -EM |
| | WR-4-57-840-MV-D |
| | WR-2-20-840-MV-D |
| LED Flushmount | FM-12-14-802-MV-D-B |
| | FM-16-22-802-MV-D-B |

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