

Project Name:	Notes:	Date:	Type:
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## MSA-D

Dual PD Microwave Motion Sensor

### FEATURES

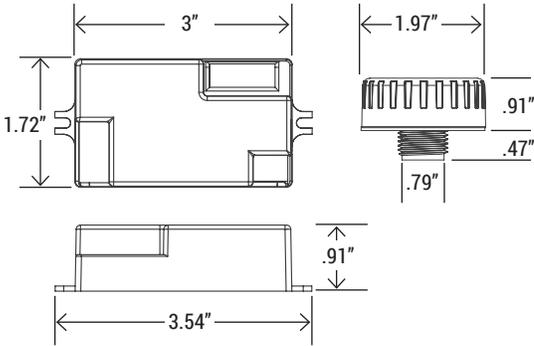
- On/Off Control
- Daylight sensor
- Remote control setting
- Detection Area
- Stand-by period
- Hold time
- Stand-by dimming level

### TECHNICAL SPECIFICATION

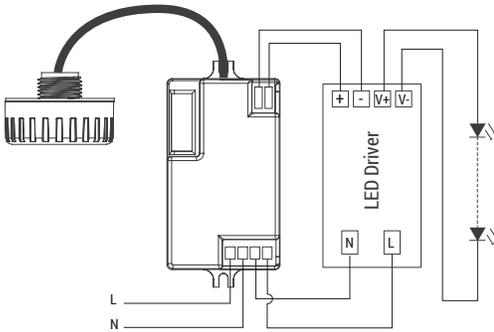
OPERATING VOLTAGE	120-277VAC, 50Hz/60Hz
SWITCHING CAPACITY	Max 3.0A@120VAC / Max. 2.0A@277VAC
STAND-BY POWER	≤1W
DETECTION AREA	50%/100%
HOLD TIME	5s/30s/1min/10min
DAYLIGHT THRESHOLD	2Lux/10Lux/50Lux/Disable
STAND-BY PERIOD	0s/30s/20min/+∞
STAND-BY DIMMING LEVEL	10%/20%/30%/50%
MICROWAVE FREQUENCY	5.8GHz±75MHz
MICROWAVE POWER	<0.3mW
INTERFACES	6-pole pluggable clamp terminal (L, N, N, L: 1-10V+, 1-10V-) for 0.75-1.5mm <sup>2</sup> cable
MOUNTING HEIGHT	Max. 49 ft (15m)
DETECTION RANGE	Max. Radius: 46 ft (14m)
OPERATING TEMPERATURE	-22°F ~ 158°F (-30°C ~ 70°C)
IP RATING	IP20

*\*Note: For Motion Sensor settings, please refer to remote control*

### DIMENSION



### WIRING DIAGRAM

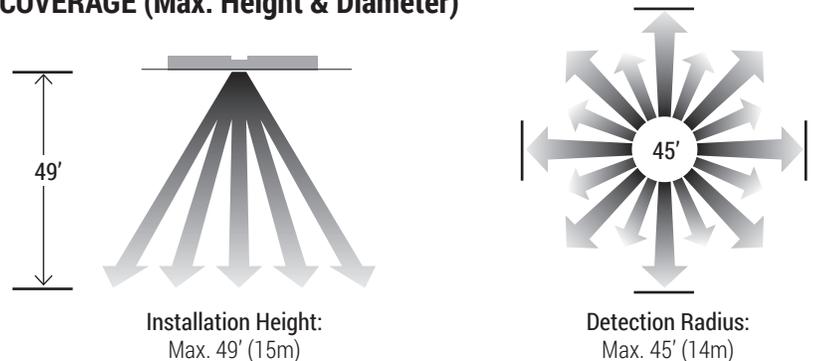


**RoHS**  
COMPLIANT



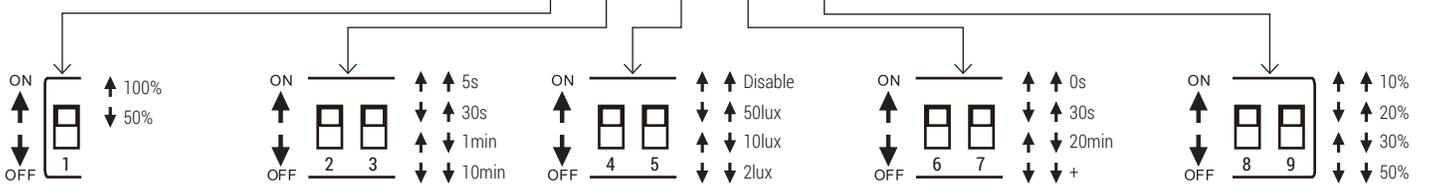
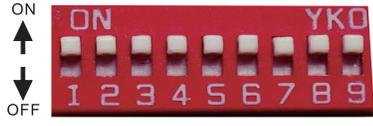
\*MSH-RC  
Motion Sensor Remote Control  
(Needed to program motion sensor,  
sold separately)

### COVERAGE (Max. Height & Diameter)



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**SETTINGS**



**DETECTION AREA**

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.

**HOLD TIME**

The period of light keeping 100% brightness after moving objects leave the detection area.

**DAYLIGHT THRESHOLD**

Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable", the sensor works every time it detects motion regardless the ambient brightness.

**STAND-BY PERIOD**

The period of light keeping low output before it's completely switched off. When it's preset as "∞", the light always keep at low output if no movement in the detection area and doesn't turn off.

**STAND-BY DIMMING LEVEL**

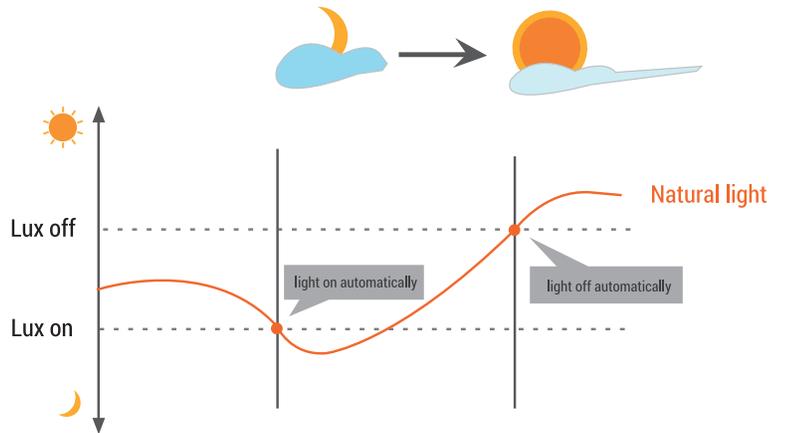
The definition of low output in the standby period.

**LUX ON/OFF**

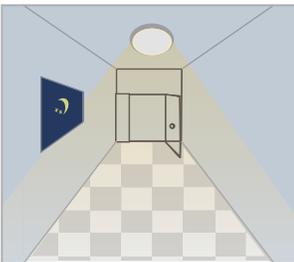
Adopted dual PD technology, MSA-D is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Pre-conditions to use the Lux-off function:

1. Standby period is +∞;
2. Standby dimming level is on 10%, 20% or 30%;
3. Daylight threshold is on 30Lux, 50Lux, 80Lux or 120Lux.



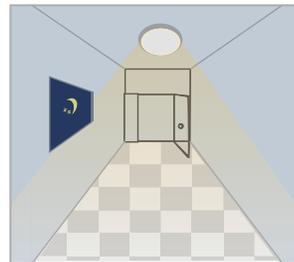
**APPLICATION: LUX ON/OFF**



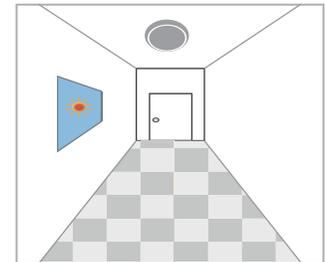
Light automatically on when ambient brightness is lower than preset lux level.



With insufficient ambient brightness, light dims to 100% when motion detected.



Light dims to standby level if no motion detected after hold time.



Light off when ambient lux level is higher than preset lux amount.