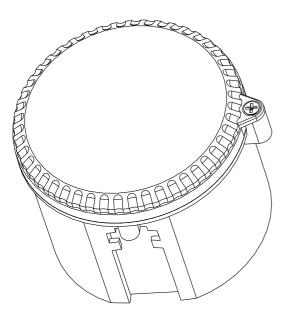


MICROWAVE MOTION SENSOR USER'S MANUAL

Model No.: MC031V





English

Introduction

- Automatic dimming when used in combination with 1-10V dimmable LED drivers or ballasts.
- Built-in adjustable daylight sensor.
- 1-10V interface can match up with Merrytek stand-alone daylight sensor MS01 and achieve daylight harvesting.
- Detection area, time delay and daylight threshold can be precisely set via DIP switch.
- Wide detection area, range up to 16m in diameter and mounting height 15M Max. suitable for warehouse use.
- Optional mounting brackets for different application.

Specifications

39.0 47.5

-	Input voltage	120~277Vac 50Hz
	Rated load	400W@120Vac, 800W@220-277Vac(Inductive load)
		800W@120Vac, 1200W@220-277Vac (Resistive load)
	Detection area	8m Max, adjustable
	Hold time	5s / 30s / 90s / 3min / 20min / 30min
	Daylight sensor	5lux / 100lux / 200lux / Disable
	Stand-by period	5s / 5min / 10min / 30min / 60min /+∞
	Stand-by dimming level	10% / 20% / 30% / 50%
	Sensor principle	Microwave motion detector
	Microwave frequency	5.8GHz±75MHz, ISM wave band
	Transmitting power	<0.5mW (1% of transmitting power for cell phone)
	Detection range	Max. (Φx h): 16m x 15m
	Detection angle	150°(Wall installation),
		360°(Ceiling installation)
	Motion detection	0.5~3m/s
	Operating temperature	-35°C~70°C
mm	IP rating	IP65

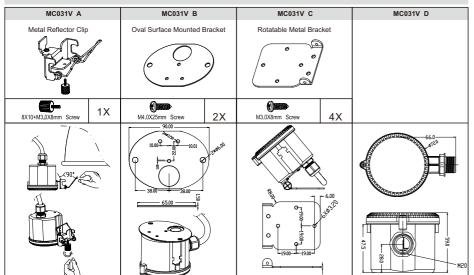
General Guidelines for Installation

unit:

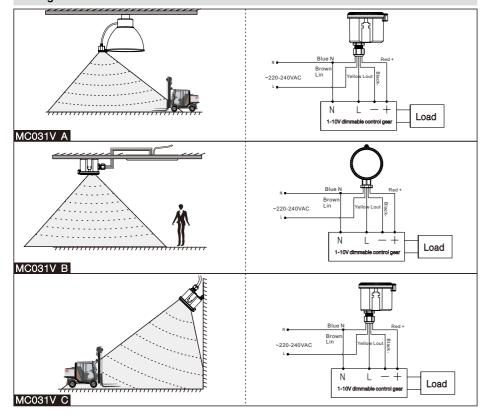
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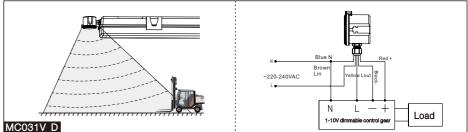
- Please read the entire instruction manual before using the product and then save it for future reference. We reserve the right for any errors in text or images and any necessary changes made to technical data.
 The sensor should be installed by a qualified electrician. And ensure that the electricity supply is switched off before installing or servicing the product.
 The sensor should not be modified in any way. Any modifications mode to this product will immediately invalidate any warranties issued.
 - The company does not accept responsibility for any consequences resulting from unauthorized modification of the product.
 - 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, The sensor is designed for indoor use only.

Installation



Wiring





NOTE: If only need ON/OFF function, please ignore red and black wire

Settings

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.





I ON ON ON

VT - - -

8 9

I ON ON 50%

IV - -10%

30% TT - ON

20%

ON

1

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Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

Hold time

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

Stand-by period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people. When set to $+\infty$ the low light is maintained until motion is detected.

Stand-by dimming level

The low light level you would like to have after the hold time in the long absence of people.

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

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

Note that daylight sensor is active only when lamp totally switches off.

FAQ

Question	Cause	Remedy
	Incorrect daylight sensor setting selected.	Adjust setting.
The load will not illuminate.	Load has failed.	Replace load.
	Power is switched off.	Switch on
	Continuous movement in the detection area.	Check detection area setting.
ne load is permanently uminated.	The lamp (containing sensor) is installed in an area too close to reflective surfaces, i. e. metal, glass or concrete walls.	 Make sure installation area suitable with at least 30cm space between lamp and surrounding reflective surfaces. Reduce sensitivity (detection area).
The load will not illuminate despite movement.	Speed of moving object is not in the range of 0. 5~3m/s or the detection radius is too small.	Check detection area setting.

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