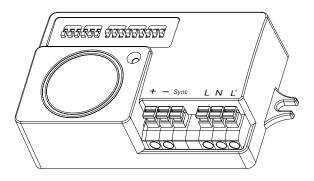
MICROWAVE MOTION SENSOR USER'S MANUAL

Model No.: MC003V/C





Standby period

Standby dimming level

Daylight threshold

Describe area

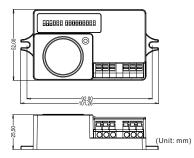
Describe area

Installation hole

Anterna module

220-240V output control

220-240V nated



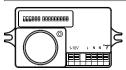
ns	
220/240Vac 50Hz	
800W(inductive load), 1200W(resistive load)	
0.5~8m, adjustable.	
10s / 30s / 90s / 3min / 20min / 30min	─ (€ 07
5lux / 10lux / 30lux / 50lux / Disable	
5s / 5min / 10min / 30min / 1h / Disable	
10% / 20% / 30% / 40% / 50%	
Microwave motion detector	
5.8GHz±75MHz, ISM wave band	
<0.5mW (1% of transmitting power for cell phone)	
Max. (Φ x h): 16m x 10m	
150°(wall installation), 360°(ceiling installation)	─ R&TT
0.5~3m/s	
-35°C~70°C	
IP20	
	220/240Vac 50Hz 800W(inductive load), 1200W(resistive load) 0.5~8m, adjustable. 10s / 30s / 90s / 3min / 20min / 30min 5lux / 10lux / 30lux / 50lux / Disable 5s / 5min / 10min / 30min / 1h / Disable 10% / 20% / 30% / 40% / 50% Microwave motion detector 5.8GHz±75MHz, ISM wave band <0.5mW (1% of transmitting power for cell phone) Max. (Φ x h): 16m x 10m 150°(wall installation), 360°(ceiling installation) 0.5~3m/s -35°C~70°C

General Guidelines for Installation



- 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.
- 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.
- 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



The sensor has 6-position terminal block as Pic 1:

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

1-10V (Connected to 1-10V interface) SYNC(Synchronization)

Shenzhen Merrytek Technology Co., Ltd
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The sensor is designed for installation at 1~10m in height.

Suggested mounting height: 1~1.8m (Wall mounting), 2.5~10m (Ceiling mounting).

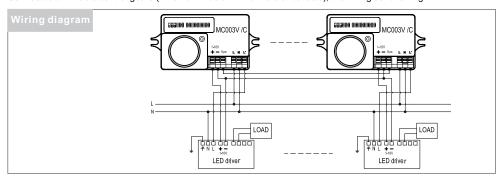
In many lighting areas, for example in warehouse and corridor, several sensors are connected to a group of lamps.

People need the functions that trigger one of sensors to make the group of lamps to switch on/off or dim simultaneously. This is called cluster-control. MC003V/C is an innovative and active motion detector designed for this function.

1, 3-step dimming function (Corridor function)

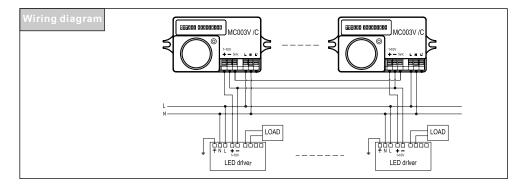
This sensor supplies 3 light levels: 100% low light level (10%, 20%, 30%, 40% or 50%)→off, for some areas that require a light change notice before switch off.

Connect to dimmable control gears (1-10v dimmable LED drivers or ballasts), the wiring as following:



2, 2-step dimming function

It means that the lamps will remains on at a low light level all the time if no motion detected in its detection zone. Connect to dimmable control gears (1-10v dimmable LED drivers or ballasts), the wiring as following:



Settings Sensor data can be set using DIP switches on the sensor. Note that reducing the detection area will also reduce the sensitivity.		
I: up to 8m II: up to 6m III: up to 4m IV: up to 3m V: up to 2m	ON 1 2 3 1 1 0 0 0 100% III 0 0 0 25% OFF V 0 0 0 100%	

Refers to the time period the lamp remains at 100% illumination after no motion detected. I: 10s II: 30s III: 90s IV: 3min V: 20min VI: 30min	ON 1 2 3 105 1105 1105 110 0 0 105 110 0 0 105 110 0 0 105 110 0 0 105 110 0 0 105 110 0 0 105 110 0 0 105 110 0 0 105 110 0 1
3, 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. I: Disable* II: 1h III: 30min IV: 10min V: 5min VI: 5s	ON 1 2 3 I 0 0 0 Disable II 0 0 0 0 10min V 0 0 0 5min OFF VI 0 0 0 5s
*When set to Disable, the lamp will remain at 100% illumination if with motion detected or a pre-setting dimming level if without motion detected regardless ambient brightness threshold.	
4,Stand-by dimming level	
This is the low light level you would like to have after the hold time in the long absence of people. I: 50% II: 40% III: 30% IV: 20% V: 10%	ON 1 2 3
5, 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: Disable* II: Sollux, twilight operation III: 30lux, twilight operation IV: 10lux, darkness operation only V: 5lux, darkness operation only *When set to Disable mode, the sensor will switch on the lamp when motion is detected	ON 1 2 3 Disable II
regardless of ambient light levels. Daylight sensor is active only when light totally switch off. That means, if set stand-by period on	

Daylight sensor is active only when light totally switch off. That means, if set stand-by period on

FAQ

2. Hold time

Question	Cause	Remedy
The load will not illuminate. L	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 are The lamp (containing sensor) is installed an area too close to reflective surfaces, metal, glass or concrete walls.	Continuous movement in the detection area.	Check detection area setting.
	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.