MC054V RC



MICROWAVE MOTION SENSOR USER'S MANUAL Model No.: MC054V RC



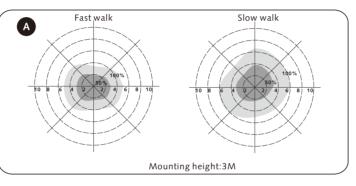
GENERAL GUIDELINES FOR INSTALLATION

- 1, 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.
- 2, The sensor should be installed by a qualified electrician. And ensure that the electricity supply is switched off before installing or servicing the product. 3, The sensor should not be modified in any way. Any modifications made to this
- product will immediately invalidate any warranties issued.
- 4, 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. The raining or wind blowing may trigger the microwave motion sensor even if without human motion when outdoor use.
- 7, The sensor should be connected to a stable power supply of 120-277Vac, 50/ 60Hz. 8, Detection area will be affected by speed of motion, height of installation and volume
- of moving object. 9, Daylight sensor is tested on sunny environment with no lampshade.

DETECTION PATTERN

ΕN

Instruction

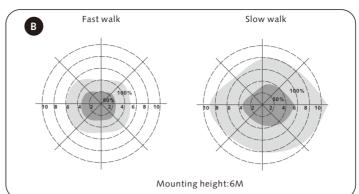


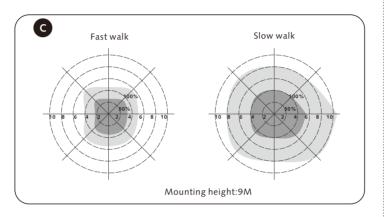
SETTINGS (REMOTE CONTROL MH01)

merryte

The green work light of microwave sensor will flash 3 times if set successfully by remote control.

DETECTION PATTERN





Button	Remarks		
ONCEFF	Press the "ON/OFF" button, the light goes to constant on or constant off mode, sensor is disabled. Press " Reset " or " Auto Mode" button to quit from this mode.		
Reset	Press "Reset" button, all parameters are same as setting of DIP switch.		
Auto Mode	Press "Auto Mode" button, the sensor starts to work and all parameter setting will be remained the same as the previous status before the light was switched on/off.		
DIM Test	Press "DIM Test" button to test dimming function. Sensor will dim automatically and return to normal work mode.		
(2) (2)	The button "Test(2s)" is for factory testing purpose only. The sensor will go to test mode, Detection sensitivity: 100% Hold time: 2sec stand-by dim level:10% Stand-by period: 0s Daylight sensor: Disable Test mode can be quit by pressing any button.		
	scene Detection Hold Stand-by Stand-by Daylight Options Area Time period dim level Sensor		
	QS1 100% 30s 1min 10% 5Lux		
	QS2 100% 1min 3min 10% 10Lux		
QS1 QS2	QS3 100% 5min 10min 10% 30Lux		
	QS4 100% 10min 30min 10% Disable		
QS3 QS4	Note: Detection area / Hold time /Stand-by period / Stand-by dim level / Daylight sensor can be adjust		
	by pressing corresponding button. The latest setting		
	stays in validity.		

FEATURE

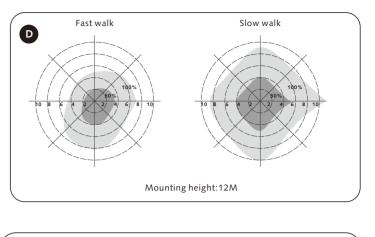
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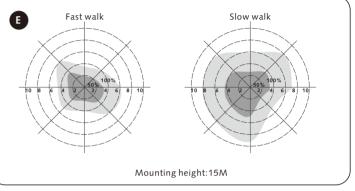
CE

- Sensor parameters can be conveniently set by a remote control.
- Mounting height up to 15m max. , suitable for warehouse use.
- Water proof sensor with IP65 rating.
- •Automatic dimming when used in combination with 1-10V dimmable control gears. • Built-in adjustable daylight sensor.
- * 1-10V interface can match up with Merrytek stand-alone daylight sensor MS01 and achieve daylight harvesting.
- Optional mounting brackets for different application.

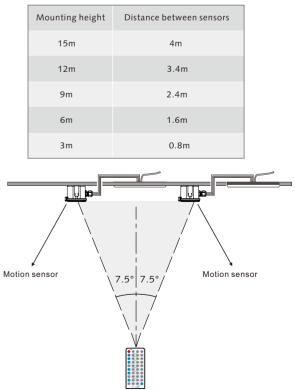
SPECIFICATIONS

Input voltage	120~277Vac, 50/60Hz
Rated load	400W@120Vac; 800W@220-277Vac (Inductive load)
	800W@120Vac; 1200W@220-277Vac (Resistive load)
Detection area	8m Max.(radius) adjustable
Hold time	5s/ 30s/ 1min/ 3min/ 5min/ 10min/ 20min/ 30min
Daylight sensor	5lux/ 15lux/ 30lux/ 50lux/ 100lux/ 150lux/ Disable
Stand-by period	0s/ 10s/ 1min/ 3min/ 5min/ 10min/ 30min/ +∞
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)
Mounting height	3-15m
Detection angle	150°(Wall installation),
	360°(Ceiling installation)
Motion detection	0.5~3m/s
Operating temperature	-35℃~70℃
IP rating	IP65

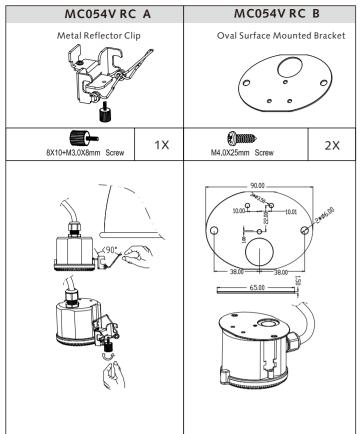


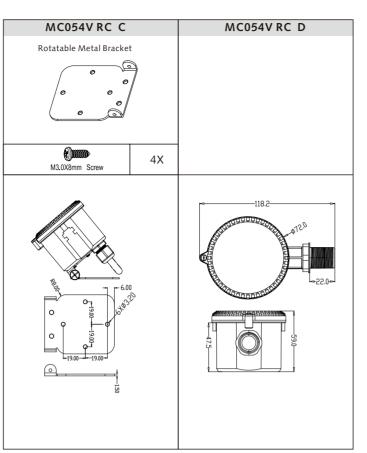


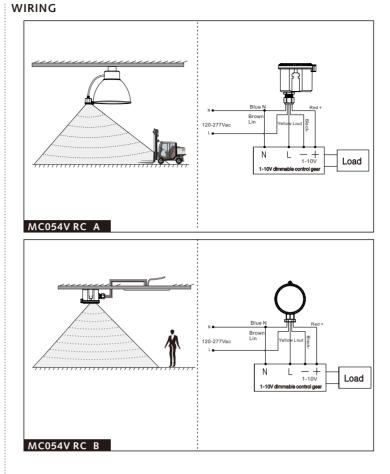
As the control angle of the Infrared Remote Control is fixed (15°), if sensors are installed too close to each other, settings of both sensors will be configured. Please refer to the below chart for the distance of the installation of the sensor:



INSTALLATION

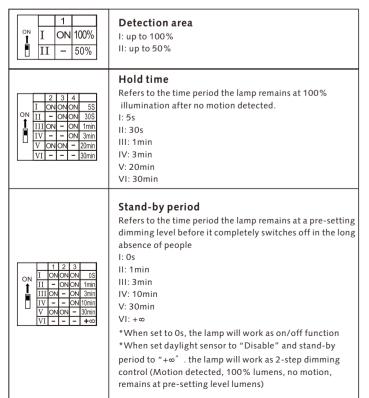






SETTINGS (DIP SWITCH)

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



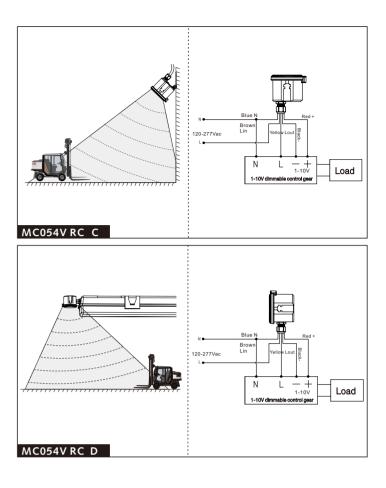
ON I I III III III IV - - 50%	Stand-by dimming level This is the pre-setting dimming level you would like to have after the hold time in the long absence of people. I: 10% II: 20% III: 30% IV: 50%
0 N I 0N0N00N Suc 0N II - 0N0N0N Suc III 0N - 0N00N Suc IIII 0N - 0N00N Suc V - 0N00N - 0N00N Suc VI - 0N00N - 05000 Suc VII - 05000 Suc	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: 5lux, darkness operation only II: 15lux, darkness operation only III: 30lux, twilight operation IV: 50lux, twilight operation V: 100lux, twilight operation VI: 150lux, twilight operation VI: Disable* *When set to Disable Mode, the sensor will switch on the lamp when motion is detected regardless of ambient light levels.

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.	 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.
The remote control is not working.	The battery on the remote control is run out.	Change the battery.
	The remote control is not aligned with sensor.	Change the remote angle.

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