

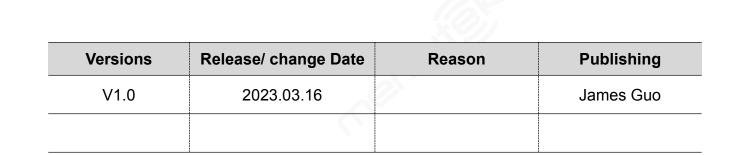
# **Specification**

Product Name:

**AC Controller** 

**Product Model:** 

MC605V D 99





## [Product Feature]

- Low impedance planar antenna
- With mini sensor detector, which does not block light
- Low transmitting power, no harm to human
- Support Remote Controller and DIP switch to adjust parameters
- With Sync port for wiring grouping
- 0-10V match MS01 can achieve daylight harvesting function
- Not affected by temperature, humidity, noise, dust etc.

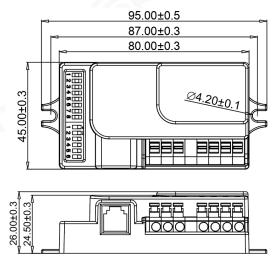
## [Function]

- $\bigcirc \mathsf{ON-OFF} \text{ function}$
- ⊘2-step dimming
- ⊘3-step dimming
- Ooverride function

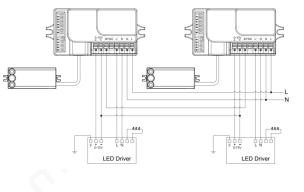
# [Product Information]

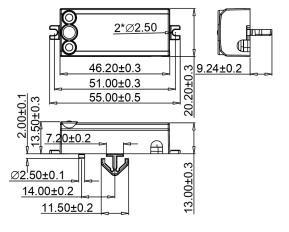
• Dimension (Unit: mm)

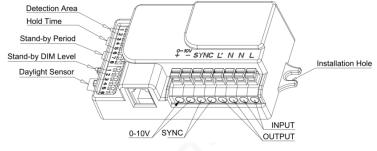




## • Wiring、Function



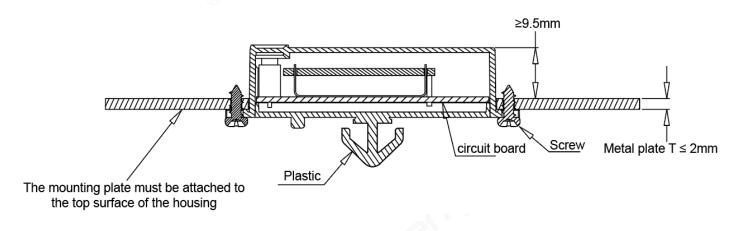








## [Installation Instruction]



#### Note

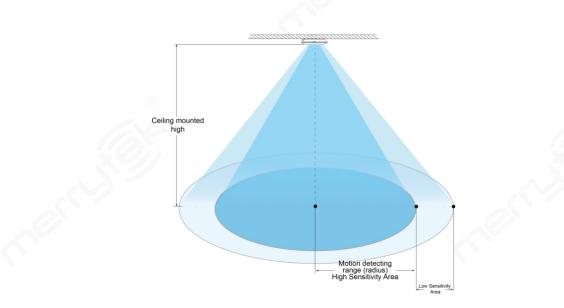
The sensor is allowed to be connected to one load only. The sensor may be damaged if connecting more than one load.

Sensor antenna should be above LED tray.

# [DIP Setting]

		De		tion	Area			Н		) Tim	е	Sta	and	by	) Per	iod S	10 Stand		50 / DI	MLev	el	D	aylig	Ght {	<b>:</b> Sens	sor
Toggle up the DIP Switch to "ON"			1	2		Detection Radius		3	4	5			6	7	8			1	2			3	4	5	6	
		т			1000/	Around 3 meters	Ι	ON	ON	ION	5S	Ι	ON	ON	ON		T			50%	Ι	ON	ON	ON	ON	<b>UEU</b> A
1 2 2 4 5 4 7 8	ON	T			100%	Albunu 5 meters	II	-	ON	ION		II			ON	5S	1			30%	II	-			ON	
Downwards to "-"		TT	ON	-	75%	Around 2.5 meters	TTT	ON	-	ON		III	ON		ON		IT	_	ON	30%	III	ON	-	ON	ON	30Lux
DOWNWARDS TO		11			1070		111		<u> </u>			IV	-	-	ON	10min				00/0	IV	-	-	ON	ON	50Lux
(rece, respective and a construction of a construction of the cons		III	_	ON	50%	Around 2 meters	11	-	-	ON	3min	V	ON	ON	-	30min	III	ON	-	20%	V	ON	ON	-	ON	100Lux
				<u> </u>			V	ON	ON	-	20min	VT	-	ON	-	1h					VT	ON	ON	ON	-	150Lux
		IV	-	-	25%	Around 1 meters	VI	-	-	-	+∞	VII	-	-	-	+∞	IV	-	-	10%	VII	-	-	-		Disable

# [Detection Range]





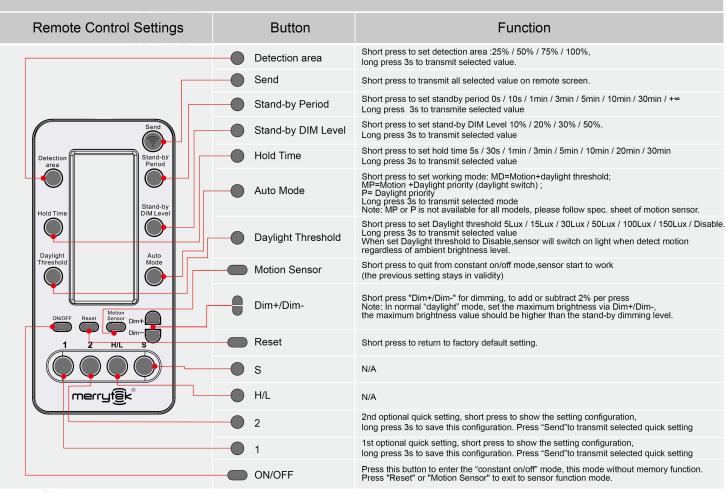
# [Parameter]

Input										
Rated Voltage	120/277VAC 50/60Hz									
Stand-by Power	≤0.5W									
Surge Test	1KV(L/N,EN61000-4-5)									
Output										
Output dimming Mode	0-10VDC Dimming Signal ON/OFF Signal									
Load Capacity	@120VAC 3.6A Ballast @277VAC 3.4A Ballast									
Max. Surge Capacity	30A (50% Ipeak, twidth =500us, 230Vac full load, cold start)									
Dim interface										
	< 50mA (Non-constant source)									
0-10V Dimming	10%(1-2V) 20%(1.9-2.1V) 30%(2.9-3.1V) 40% (3.9-4.1V)									
Sensor Parameter										
Operating Frequency	5.8 GHz ±75MHz, ISM wave band.									
Transmitting power	1mW Max.									
	1m/s ≥2.5m. @ 3m ceiling mounting, 1m/s ≥4m @ 2m wall mounting									
Detecting Radius	Test conditions : the product is set to 100% sensitivity, and there is no obvious									
C	occlusion in the room of 60 $m^2$ , 165cm person.									
Mounting Height	3-6m (ceiling mounting)									
3db beam angle	80°@XZ plane									
Sub beam angle	96°@YZ plane									
Environment										
Environment Operating Temperature	-35~70℃									
Operating Temperature	-35~70℃									
Operating Temperature Storage Temperature	-35~70℃									
Operating Temperature Storage Temperature Certificate Standard	-35~70°C -40°C~80°C, Humidity: ≤85%(Non-condensing)									
Operating Temperature Storage Temperature Certificate Standard Certificate	-35~70°C -40°C~80°C, Humidity: ≤85%(Non-condensing) UL									
Operating Temperature Storage Temperature <b>Certificate Standard</b> Certificate Environmental Requirement Safety Standards	-35~70°C   -40°C~80°C, Humidity: ≤85%(Non-condensing)   UL   Compliant to RoHS 2.0, Reach									
Operating Temperature Storage Temperature <b>Certificate Standard</b> Certificate Environmental Requirement	-35~70°C   -40°C~80°C, Humidity: ≤85%(Non-condensing)   UL   Compliant to RoHS 2.0, Reach   UL60730									
Operating Temperature Storage Temperature <b>Certificate Standard</b> Certificate Environmental Requirement Safety Standards IP Rating	-35~70°C   -40°C~80°C, Humidity: ≤85%(Non-condensing)   UL   Compliant to RoHS 2.0, Reach   UL60730   IP20									
Operating Temperature Storage Temperature <b>Certificate Standard</b> Certificate Environmental Requirement Safety Standards IP Rating Protection Class	-35~70°C   -40°C~80°C, Humidity: ≤85%(Non-condensing)   UL   Compliant to RoHS 2.0, Reach   UL60730   IP20									
Operating Temperature Storage Temperature <b>Certificate Standard</b> Certificate Environmental Requirement Safety Standards IP Rating Protection Class <b>Other</b>	-35~70°C   -40°C~80°C, Humidity: ≤85%(Non-condensing)   UL   Compliant to RoHS 2.0, Reach   UL60730   IP20   Class II									
Operating Temperature Storage Temperature <b>Certificate Standard</b> Certificate Environmental Requirement Safety Standards IP Rating Protection Class <b>Other</b> Wiring	-35~70°C   -40°C~80°C, Humidity: ≤85%(Non-condensing)   UL   Compliant to RoHS 2.0, Reach   UL60730   IP20   Class II   Press-in terminals wire diameter: 10-24 AGW									
Operating Temperature Storage Temperature <b>Certificate Standard</b> Certificate Environmental Requirement Safety Standards IP Rating Protection Class <b>Other</b> Wiring Installation	-35~70°C   -40°C~80°C, Humidity: ≤85%(Non-condensing)   UL   Compliant to RoHS 2.0, Reach   UL60730   IP20   Class II   Press-in terminals wire diameter: 10-24 AGW   Built-in									



## [Retome]

# MH12



## [Initialization]

• Switch function/three-stage dimming function: the light will be turned on 100% brightness by the initial energizing sensor, and will be turned off after 10 seconds. During initialization, no external motion sensing signal will be detected.

• Two-phase dimming function: the light will turn on 100% brightness in the initial energizing sensor, and turn to low brightness 10 seconds later (the brightness set by stand-by dim level). During initialization, no external motion sensing signal will be detected.

## [Default setting]

Sensitivity: 100%, Hold time: 5s, Daylight sensor: Disable, Stand by period: 0s, Stand by DIM level: 50%

## [Application Notice]

• Sensor should be installed by a professional electrician. Please turn off power before installing, wiring, or setting the DIP switches.

• Microwaves cannot penetrate metal. Do not place product in a closed or a half-closed metal lamp. Neither metal nor glass is not allowed to cover above the product. If antenna needs to pass through the



metal plate, please ensure that the top of sensor is close to the metal plate.

• Sensitivity area is related to moving speed of objects, size of moving objects, mounting height, mounting angle, working environment, reflecting materials and etc.. Given detecting area is typical value that was measured by 165cm high testers in an indoor open environment.

• The daylight thresholds are measured on a sunny day without shadow and in an ambient light diffuse reflection status. Different environment and climate cause different brightness values that daylight sensor measures.

• The installation spacing between sensors is recommended to be greater than 3m, and the installation spacing between sensors and routers is recommended to be greater than 2m.

• Sensor should not be covered or hided by metal, PCB, LED tray etc.. The spacing between the sensor antenna and surrounding materials should be greater than 5mm. There should be no metal or PCB tracks near the sensor antenna, above or below it. The recommended thickness of cover is 2mm, and keep the spacing between the sensor antenna and cover is greater than 3.2mm.

• Vibration signals will be regarded as moving signals to trigger sensor. Installing sensor should be away from the object that vibrates for a long time, such as large metal equipment, pipes, air conditioning outlets, exhaust vents, smoke exhaust machine ports, shaking fans, etc. Pets in detecting area may cause false trigger.

• The antenna surface of microwave module should be away from input AC, output DC, rectifier bridge, transformer, switch tube and other high-power devices to avoid high frequency signals affecting the normal operation of microwave sensor's antenna.

• Sensor is for indoor use only. The waterproof effect for outdoor or half-outdoor use will be affected. Wind, rain, and moving objects may cause false triggering.

