

Specification

Product Name: AC Controller

Product Model: MC613V D 99

Versions	Release/ change Date	Reason	Publishing
V1.0	2023.03.18		James Guo



[Product Feature]

- 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
- low side lobe; better adaptability to metal warehouse; Strong anti-interference ability
- 0-10V match MS01 can achieve daylight harvesting function
- Not affected by temperature, humidity, noise, dust etc.





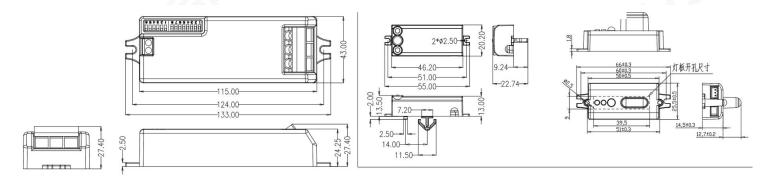
[Function]

- **⊘ON-OFF** function
- **⊘**3-step dimming
- Override function

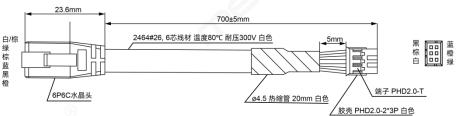
- ODaylight harvesting
- ODaylight priority
- OHigh-low sensitivity
- **Grouping**

[Product Information]

Dimension (Unit: mm)

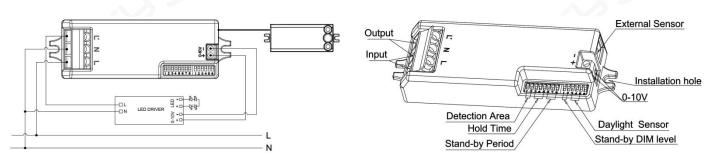


body Tpye A sensor Tpye B sensor Tolerance: $\pm 0.3 \text{mm}$



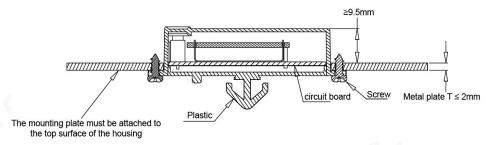
Wiring: 712±5mm

Wiring \(\text{Function} \)

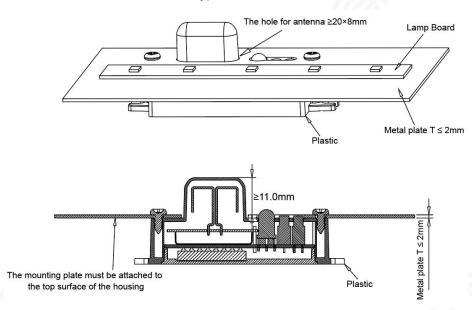




[Installation Instruction]



Type A sensor



Tpye B sensor

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.

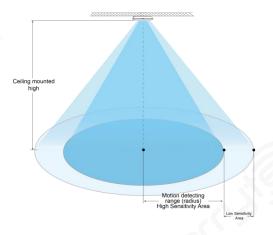
[DIP Setting]



	De		∎∎ tion	Area			Ho	old 1) Time	•	s	tan	d-b)		- eriod S	Stan	10% d-b	y D	IM Le	vel		ayl	ligh	C t Se	• ensor
		1	2		Detection Radius		3	4	5			6	7	8			1	2			3	4	5	6	
		1000/	Around 3 meters	Ι	ON	ON	ON	8s	Ι	ON	ON	ON	0s	Т		10%	Ι	ON	ON	ON	ON	5Lu			
NC		100 /6		П	ON	-	- ON 30s II ON - ON 1min	10 /6	П	1,-0	ON	ON	ON	15Lu											
ţ	TT	ON	-	75%	Around 2.5 meters	Ш	_	ON	ON	1min	Ш	-	ON	ON	3min	TT	ON	_	20%	Ш	ON	-	ON	ON	30Lu
				200 300		IV	ON	_	-	5min	ΙV	ON	-	_	5min					IV	-		ON	ON	50Lu
	Ш	-	ON	50%	Around 2 meters	V		ON	1-1	10min	V	_	ON	-	10min	Ш	-	ON	30%	V	ON	ON	-	ON	100Lu
			Day 20090 es	VI	-	-	ON	15min	VI		-	ON	30min					VI	ON	ON	ON	-	150Lu		
IV	-	- -	25%	Around 1 meters	VII	=	_	-	30min	VII	-	-	_	+∞	IV	10 - .	-	40%	VII	_	_	=	-	Disabl	



[Detection Range]



[Parameter]

Input										
Rated Voltage	120/277/347VAC 50/60Hz									
Stand-by Power	≤1W									
Surge Test	1KV(L/N, EN61000-4-5)									
Output										
Output dimming Mode	0-10VDC Dimming Signal ON/OFF Signal									
Land Orangita	@120VAC 3.6A Ballast									
Load Capacity	@347VAC 3.3A Ballast									
Max. Surge Capacity	50A (50% Ipeak, twidth =500us, 230Vac full load, cold start)									
Dim interface										
2 10150	< 50mA (Non-constant source)									
0-10V Dimming	10%(0.5-1V) 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									
	occlusion in the room of 60 m², 165cm person.									
Mounting Height	3-6m (ceiling mounting)									
3db beam angle	80°@XZ plane									
Sub beam angle	96°@YZ plane									
Environment										
Operating Temperature	-35~70℃									
Storage Temperature	-40°C~80°C, Humidity: ≤85%(Non-condensing)									
Certificate Standard										
Certificate	UL, CE, RED									
Environmental Requirement	Compliant to RoHS 2.0, Reach									
Safety Standards	UL60730									
IP Rating	IP20									
Protection Class	Class II									
Other										

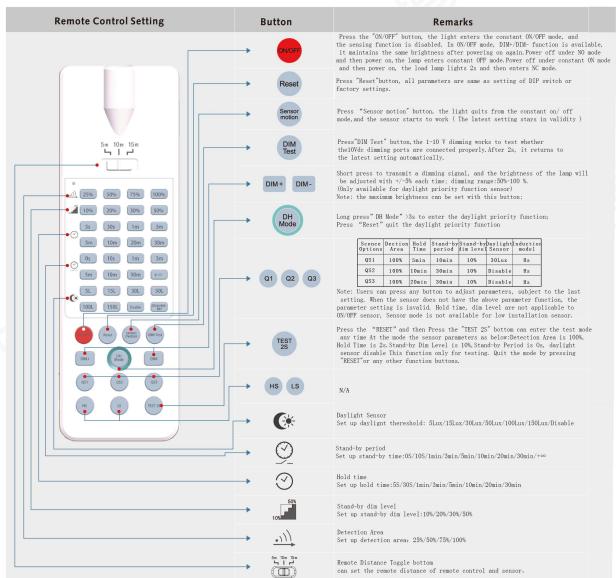


Wiring	Press-in terminals wire diameter: L /N /L': 18AWG +/-Dimming port: 22AWG
Installation	Built-in
Package	Clapboard + Carton(K=A)
Net Weight	220±5g
Lifetime	5 years warranty @Ta 230V

[Retome]

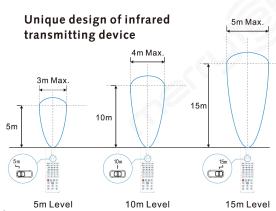


MH10 Instruction



Remote control and code setting conversion

- 1.DIP switch setting convert to remote control Press any bottom except "RESET" on the remote control, and the sensor settings convert to the function currently selected by the remote control. (No function button settings invalid)
- 2 remote control convert to DIP switch setting
- a. Press the "RESET" button on the remote control, and all settings return to the DIP switch settings of the sensor.
- b. Turn off the power, toggle any DIP switch, connect to the power, and all settings return to the DIP switch settings when supply power again.





[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: 8s, Daylight sensor: Disable, Stand by period: 0s, Stand by DIM level: 10%

[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.