

Specification

Product Name: DC Controller(Microwave)

Product Model: MC079D 99 Series

Versions	Release/ change Date	Reason	Publishing
V1.0	2024.01.05		James Guo
V1.1	2024.04.10	Change size	James Guo



[Product Feature]

- Low impedance planar antenna; High-gain
- Thimble interface; Earphone interface; Zhaga interface
- 15 meters maximum installation height, suitable for most warehouses
- Mini Microwave motion detector for High Bay Lights.
- Junction box free design, IP65 waterproof
- Sensor parameters can be adjusted by remote
- The sensing range is adjustable (high sense/low sense), suitable for different installation environments
- Not affected by temperature, humidity, noise, airflow, dust, light etc.
- Automatic swing structure, easy to plug and play.



MC079D 99 A MC079D 99 DI MC079D 99 Z

[Parameters]

Input					
Rated voltage	11-13VDC				
Working current	<30mA				
Ripple voltage	<100mVp-p				
output					
Output signal	0 -10VDC dimming signal				
Sensor parameters					
Working frequency	5.8GHz ±75MHz, ISM band				
Transmitting power	3mW Max.				
Daylight Sensor	5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable				
D 11.14 1 11	ON	5Lux/15Lux/30L	.ux/50Lux	100Lux	150Lux
Daylight priority	OFF	150Lux		200Lux	300Lux
Dimming level	10%(1.4-1.6V)	20%(1.9-2.1V)	30%(2.9-3.1V	′) 50% (4.9-5.1V)	5000
Detection range (radius)	Ceiling installation 12m high: 0.3m/s≥4m, 1m/s≥3m;				
Installation height	12m (15m Max)				
0.415 15 - 5 - 5 - 5 - 5 - 5 - 5	82°@XZ plane				
3db beam angle	95°@YZ plane				
Environment					
Working temperature	-35~60℃				
Storage temperature	-40℃~80℃, humidity ≤85% (non-condensing)				



Certification standards							
Certified	CE UL-60730-1						
Environmental requirements	Comply with RoHS 2.0 , Reach requirements						
IP Rating	IP65						
Other							
Wiring	MC079D 99 A	MC079D 99 DI	MC079D 99 Z				
vviilig	Thimble interface	Earphone interface	Zhaga interface				
Installation requirements	built-in installation						
Packaging requirements	Clapboard + Carton(K=A)						
Net weight	Body: 40.6±5g						
Lifetime	5 years warranty @Ta						

[Function description]

☑ON-OFF function Stand-by Period be set to "0s"☑2-step dimming Stand-by Period be set to "+∞"

☑3-step dimming Stand-by Period be set to "10s/1min/3min/5min/10min/30min"

■ Paylight priority

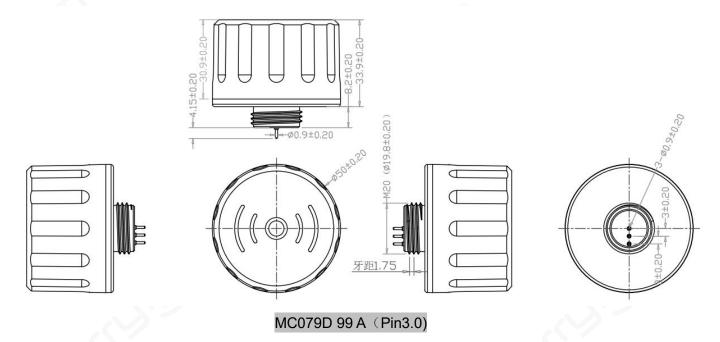
Remote set DH Mode+Daylight Sensor set to

"5Lux/15Lux/30Lux/50Lux/100Lux/150Lux" N/A

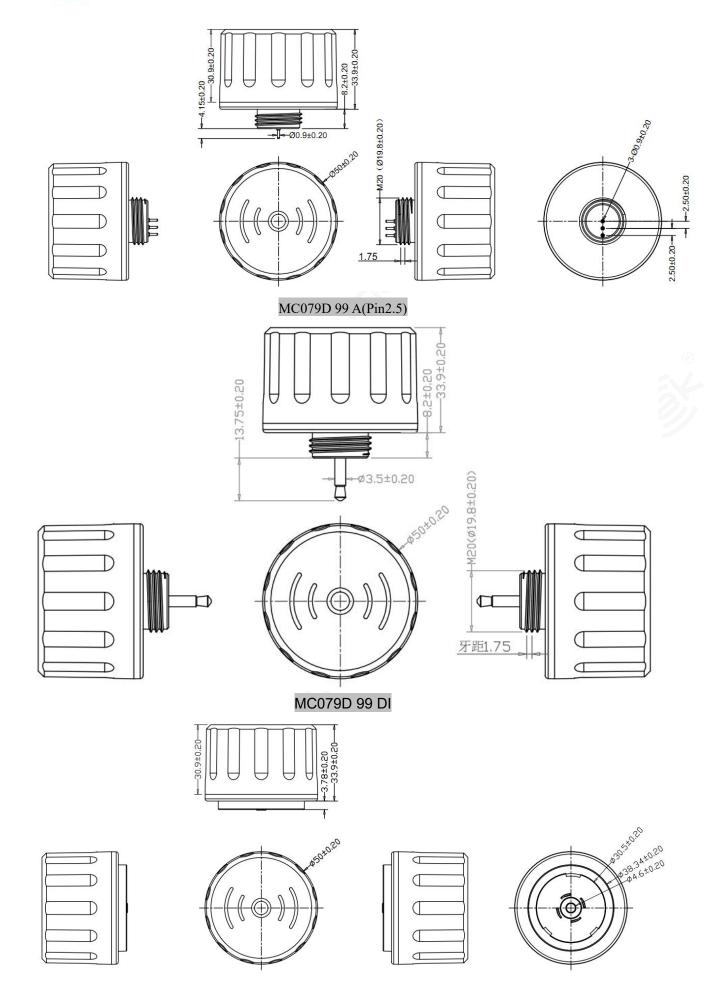
□Daylight harvesting N/A

[Product Information]

• Dimension (Unit: mm)



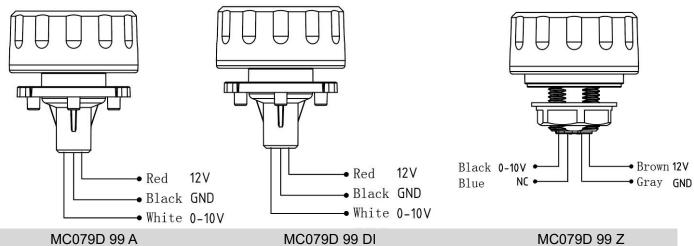




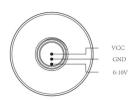


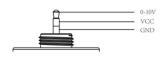
MC079D 99 Z





Function





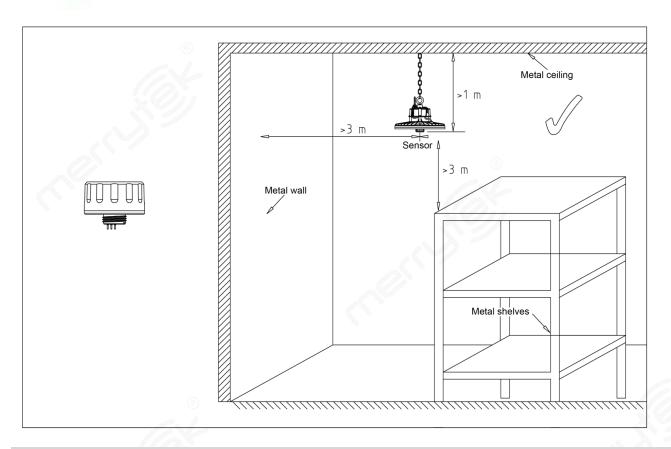


MC079D 99 A MC079D 99 DI MC079D 99 Z

[Installation Instruction]

Installation environment

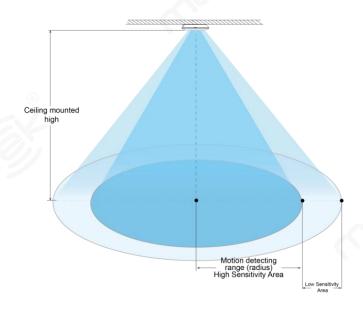




Note

When installing, please pay attention to the distance between the microwave antenna and the metal frame.

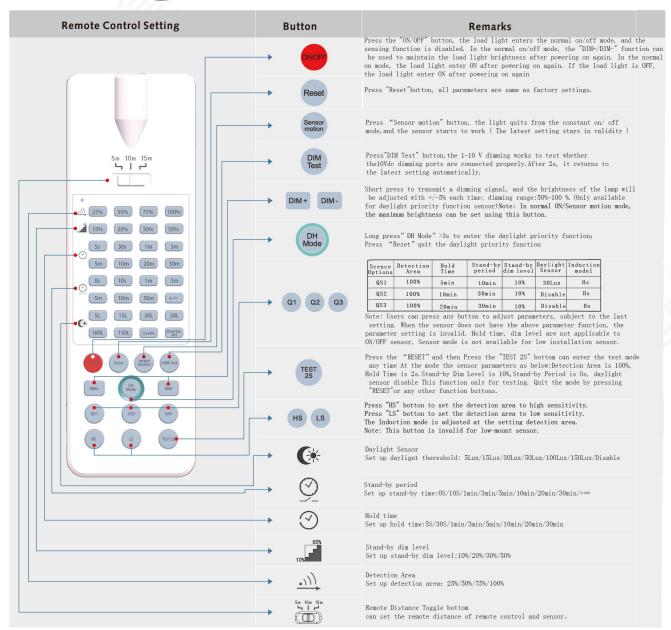
【Detection Range】





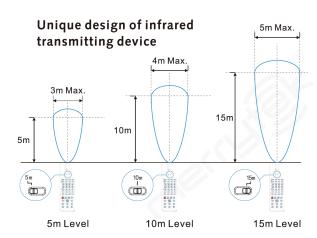


MH10 Instruction



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]

- On/Off function / 3-Step dimming function: the sensor turns on the light at 100% brightness, and will be turned off after 10 seconds. During initialization, the sensor is not able to detect movement.
- 2-Step dimming function: the sensor turns on the light at 100% brightness. After 10 seconds, it dims the light to low light level (the brightness set by stand-by dim level). During initialization, the sensor is not able to detect the movement.

【Default setting】

Sensitivity: 100%, Hold time: 5s, 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.
- The distance is related to factors such as the moving speed of the moving object, the size of the moving object, the installation height, the installation angle, whether the installation environment is open, and the material of the reflector. The detection distance given in the specification is a typical value, it is 165cm/65kg people who walks in an open indoor environment
- The daylight threshold is in a sunny environment, no shadows, and ambient light diffuse reflection conditions. In different periods, climates, and environments, the daylight value detected by the light sensor may be different.
- Sensor parameters may need to be reconfigured in different installation environments, please refer to the following instructions or contact the manufacturer
- This sensor is only for indoor use, outdoor use may be false triggered by wind and rain, and surrounding moving objects.
- The installation height of the sensor product cannot exceed 15 meters, and the suitable height is 12 meters; the distance between the two sensors should be greater than 3 meters
- When the sensor is installed in a metal lamp, on a metal reflective surface, or in a narrow closed environment, the microwaves will be reflected multiple times and cause false triggering. Please reduce the sensor sensitivity or contact the manufacturer for technical support.
- Sensor is compatible with different 0-10V driver but dimming effect will be different.
- DC regulated power supply with stable output voltage and low ripple coefficient must be used. The ripple of the power supply should be less than 100mV; the load current should be greater than 50 mA
- For the new installation environment, it is recommended to test 5pcs samples before installation.