

Specification

Product Name: DC Controller

Product Model: MC079D 99 C

Versions	Release/ change Date	Reason	Publishing
V1.0	2023.04.06		James Guo
V1.1	2023.04.20	Add Installation Instruction of the base	James Guo



[Product Feature]

- Low impedance planar antenna; High-gain
- International general Type -C interface
- 15 meters maximum installation height, suitable for most warehouses
- Mini Microwave motion detector for High Bay Lights.
- Junction box free design, IP65 waterproof
- Ultra-low RF power output, harmless to human health
- 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.



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.		
Day dialek and odf	Switch ON 5Lux/15Lux/30Lux/50Lux 100Lux 150)Lux	
Daylight priority	Switch OFF 150Lux 200Lux 300)Lux	
Dimming level	10%(1.4-1.6V) 20%(1.9-2.1V) 30%(2.9-3.1V) 50% (4.9-5.1V)		
Detection range (radius)	Ceiling installation 12m high: 0.3m/s≥4m, 1m/s≥3m;		
Installation height	12m (15m Max)		
2dh haan anala	82°@XZ plane		
3db beam angle	95°@YZ plane		
Environment			
Working temperature	-35~60℃		
Storage temperature	-40°C~80°C, humidity ≤85% (non-condensing)	(
Certification standards			
Certified	CE	11	
Environmental	Comply with RoHS 2.0 , Reach requirements		
requirements			
IP Rating	IP65		
Other			
Wiring	Tpye C		
Installation requirements	built-in installation		
Packaging requirements	Clapboard + Carton(K=A)		



Net weight	Body: 40.6±3g Base: 26.6±3g
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"

⊘Daylight priority

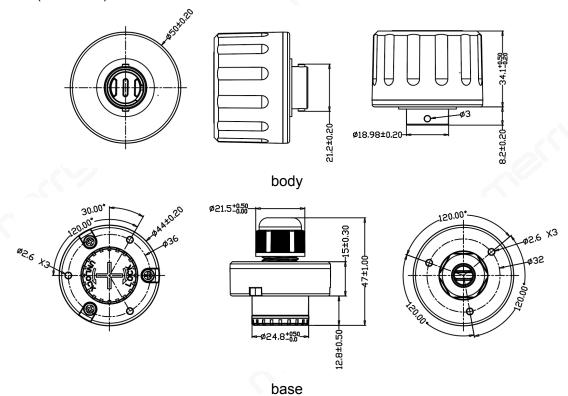
Remote press DH Mode and Daylight Sensor be set to

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

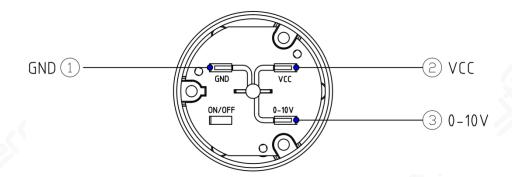
ODaylight harvesting N/A

[Product Information]

• Dimension (Unit: mm)

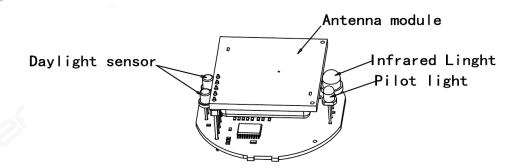


Wiring



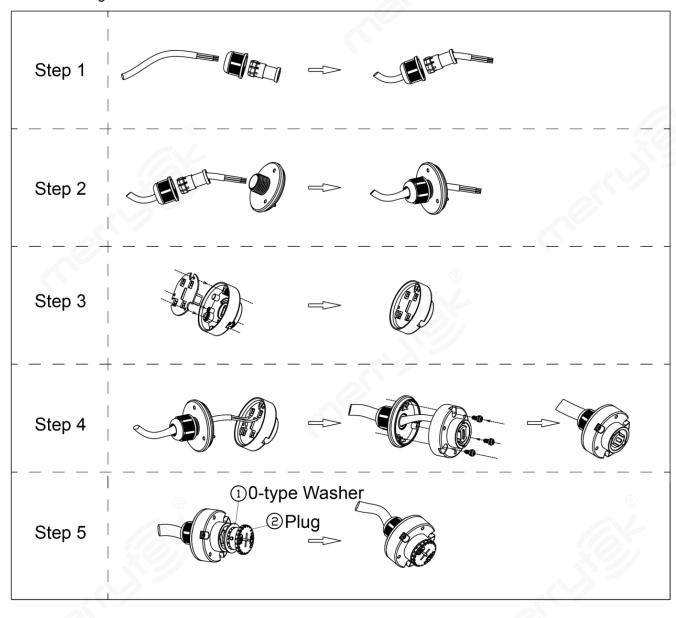


Function



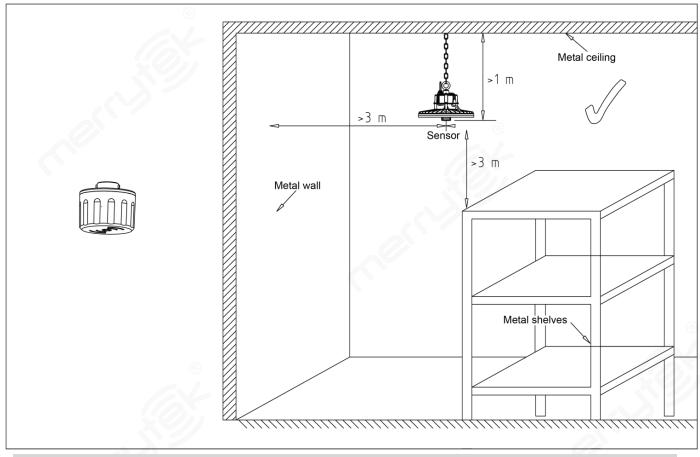
[Installation Instruction]

Base mounting





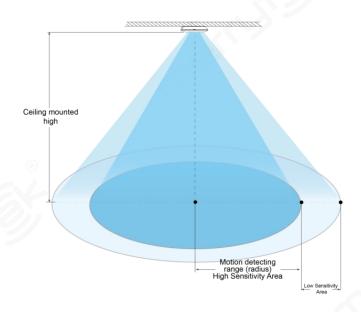
Installation environment



Note

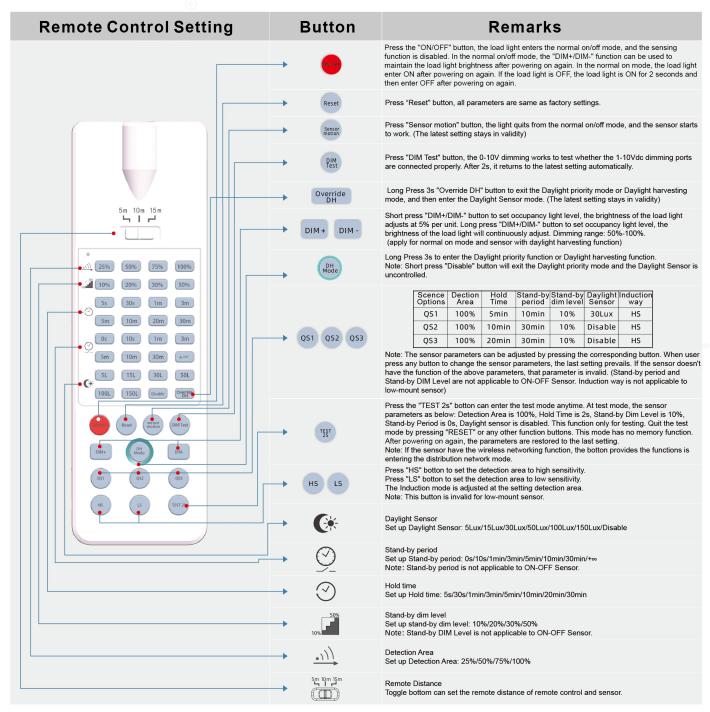
When installing, please pay attention to the distance between the microwave antenna and the metal frame.

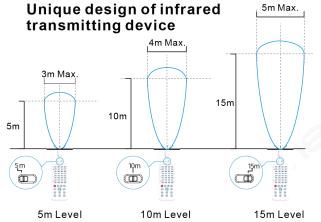
[Detection Range]





[Retome]







[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 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.