

Specification

Product Name: DC Controller

Product Model: MC079D IR series

Versions	Release/ change Date	Reason	Publishing
V1.0	2023.05.17		James Guo
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[Product Feature]

- Thimble interface; Earphone interface; Zhaga interface
- 12 meters maximum installation height, suitable for most warehouses
- Mini Microwave motion detector for High Bay Lights.
- IP65 design
- Sensor parameters can be adjusted by remote
- High mounting PIR sensor







MC079D IR A	MC079D IR DI	MC079D IR Z

[Parameters]

Input		
Rated voltage	12±1VDC	
Operating Voltage	12V DC	
Ripple voltage	<100mVp-p	
output		
Output signal	⊙0 -10VDC dimming signal	

Sensor parameters				
Detection mode	PIR detection			
Daylight priority	Switch ON	5Lux/15Lux/30Lux/50Lux	100Lux	150Lux
	Switch OFF	150Lux	200Lux	300Lux
Dimming level	10%, 20%, 30%, 50%			
Detection range (radius)	2-4m (indoor sensitivity 100% no direct sunlight to sensor)			

Detection range (radius)	2-4111 (Indoor, sensitivity 100 /0, no direct sunlight to sen
Installation height	Typical 10m (12m Max)

Environment

Working temperature	0~35℃	
Storage temperature	-20℃~+80℃	Humidity: 10%-95% (non-condensing)

Certification standards

Certified	UL 8750(Pending)	
Environmental	Comply with RoHS 2.0 , Reach requirements	
requirements	Comply with Korio 2.0 , Keach requirements	
IP Rating	IP65	



Other		
Wiring	Thimble interface	
Installation requirements	Mount center or side of highbay	
Packaging requirements	Clapboard + Carton(K=A)	
Net weight	80g	
Lifetime	3 years warranty @Ta	

[Function description]

☑ON-OFF function☑2-step dimmingStand-by Period be set to "5"☑2-step dimming

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

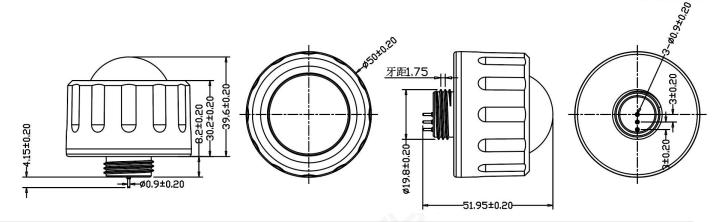
Remote press DH Mode and Daylight Sensor be set to

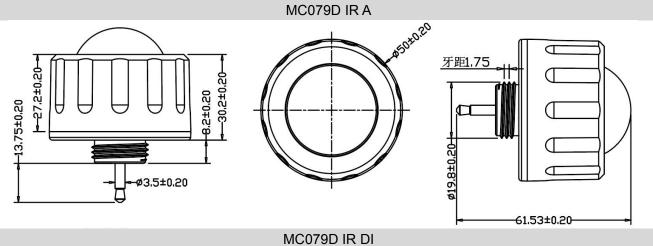
"5Lux/15Lux/30Lux/50Lux/100Lux/150Lux"

□Daylight harvesting N/A

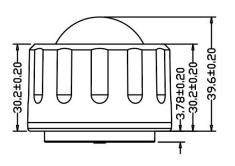
[Product Information]

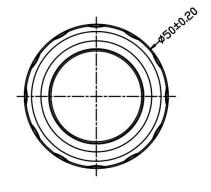
Dimension (Unit: mm)

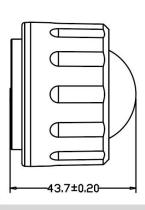






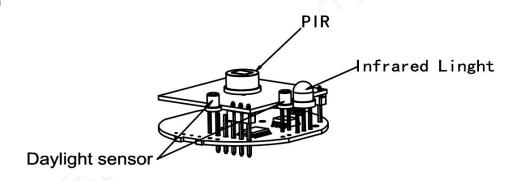


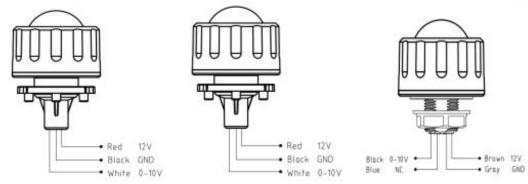




MC079D IR Z

Function

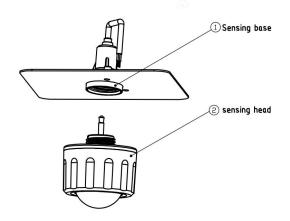


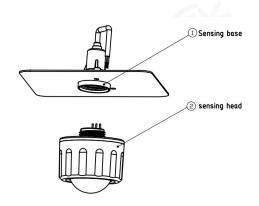


Wiring

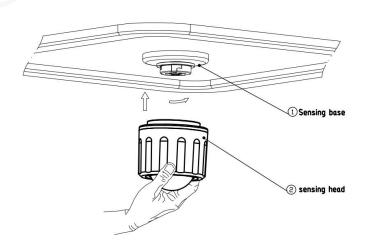
MC079D IR A MC079D IR DI MC079D IR Z

• Installation Instruction

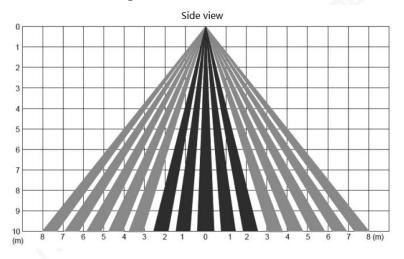


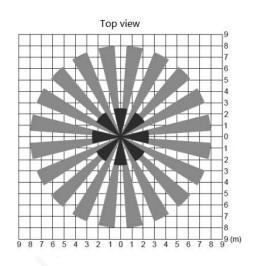






[Detection Range]

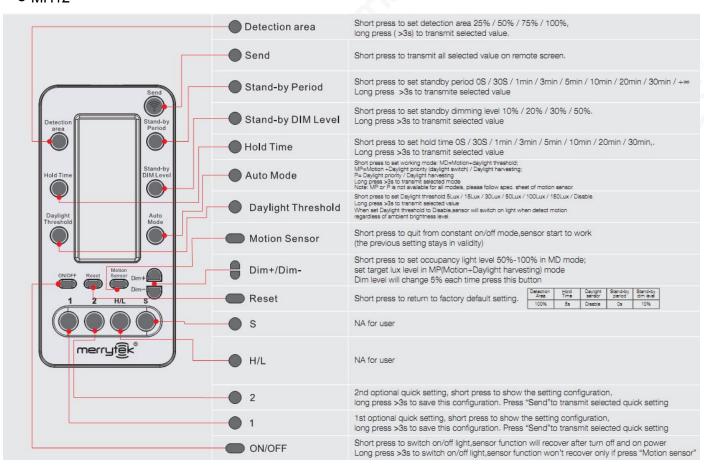






[Retome]

• MH12

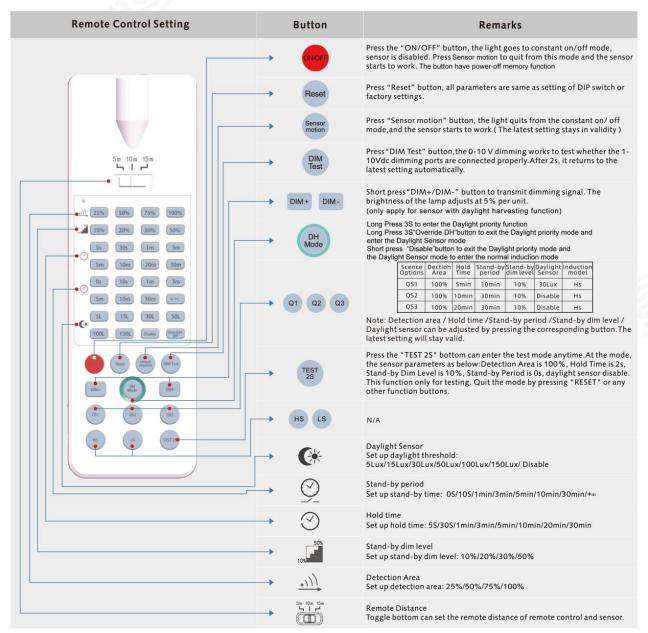




MH10

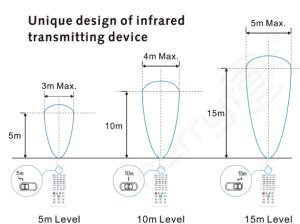


MH10 Instruction



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]

After switch on power, sensor will be warmed 45-60s then start to work.

[Default setting]

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

[Application Notice]

- The sensor should be installed by a professional electrician. Please turn off the power before installing, wiring and changing parameters.
- PIR sensor can't penetrate any materials, please make sure no obstacle between sensor and moving people/object.
- Sensor may hard to detect people if wear thick clothes in cold winter.
- Heat signals will be regarded as moving signals to trigger the sensor. Avoid facing sensor to air condition or other heating source.
- Sensor is for indoor use only. Outdoor sunlight could affect the detection of sensor.
- Due to continuous improvement, the contents of this instruction could be changed without prior notice.
- The dimming performance could be different when work with different 0-10V drivers.
- The daylight threshold is measured in a sunny environment without shadow and ambient light diffuse reflection. Ambient lux level could be different in different environment, weather, climate, time-of-day and season.
- Detection distance is related to height of people, mounting height, mounting angle, working environment, and etc.
- Given detecting area is typical value that was measured by 165cm high testers in an indoor open environment.
- This product have to use with voltage-stabilized DC power supply whose input voltage is stable and ripple factor is low(ripple factor is lower than 100mV; load current is greater than 25mA).
- When installing in new environment, please install and test at least 5pcs product firstly before mass installation.