

Specification

Product Name:

Network Sensor

Product Model:

MC079D 99 ZB

Version	Release / Change Date	Reason	Publishing
V1.0	2023.06.27		James.Guo
V1.0	2024.02.27	Revise Working Temperature	James.Guo

【Product Feature】

- 12Vdc Input, suitable for DC systems or LED driver with 12V DC auxiliary power output.
- 0--10V dimming terminal, 3-step or 2-step is optional, detection area adjustable
- Mini size microwave detection sensor
- Indoor maximum mounting height is 15m
- All sensor parameters can be set by remote control
- Support wireless 2.4G networking



【Parameter】

Input				
Rated Voltage	12±1V DC			
Working Current	55±5mA			
Ripple Voltage	<100mVp-p			
Output				
Output Signal	0-10V dimming signal			
Sensor parameters				
Working Frequency	5.8 GHz ±75MHz, ISM wave band			
Transmitting Power	3mW Max			
Daylight Priority	ON	15Lux (Low)	50Lux (Med)	Disable (High)
	OFF	100Lux	150Lux	
Stand-by dim level	< 50mA (Non-constant current source) 10%(1.4-1.6V) 30%(2.9-3.1V)			
Detection Area(Radius)	Ceiling mounting height 12m: r≥4m@0.3m/s, r≥3m@1m/s			
Mounting Height	12m (15m Max)			
3dB beam angle	86°@XZ plane			
	104°@YZ plane			
Wireless parameters				
Working Frequency	2.4GHz			
Transmitting Power	6dBm			
Transmitting Distance	Point to point transmit 15m Max			
Environment				
Working Temperature	-35~60℃			
Storage Temperature	-40℃~80℃, humidity≤85% (Non-condensing)			
Certification Standards				
Certified	CE			
Environmental requirements	Comply with RoHS 2.0, Reach requirement			
IP Rating	IP65			
Other				
Wiring	Standard Zhaga Book 18 connector			
Installation	External			

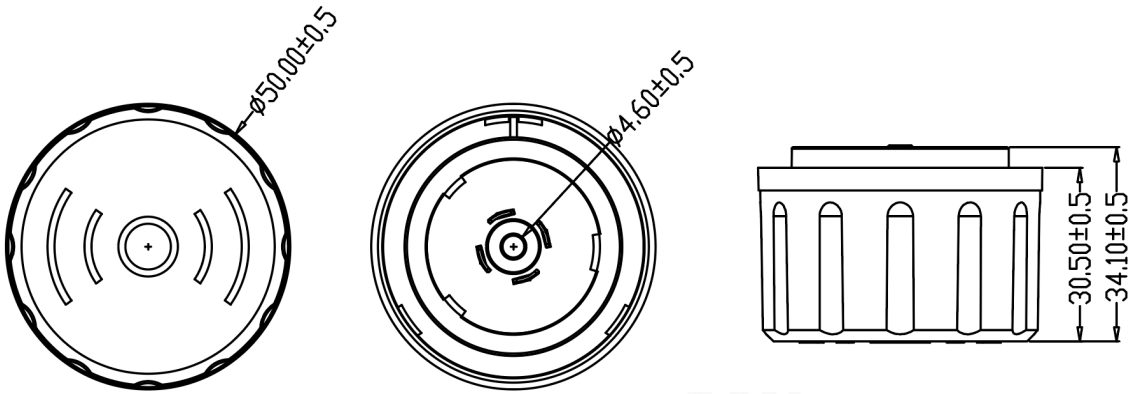
Package	Clapboard+box (K=A)
Net Weight	
Lifetime	5 years warranty@Ta

【Function】

<input type="checkbox"/> ON/OFF function	N/A
<input checked="" type="checkbox"/> 2-step dimming function	Stand-by Period set as “+∞” , Daylight Sensor set as “High”
<input checked="" type="checkbox"/> 3-step dimming function	Stand-by Period set as “5min/10min/+∞”
<input type="checkbox"/> Daylight harvesting	N/A
<input checked="" type="checkbox"/> Daylight priority	Stand-by Period set as “+∞” , Daylight Sensor set the opening value as “Low/Med”
<input checked="" type="checkbox"/> Network function	Remote control setting group (Ex: 1~8), set Rx receiving signal

【Product Information】

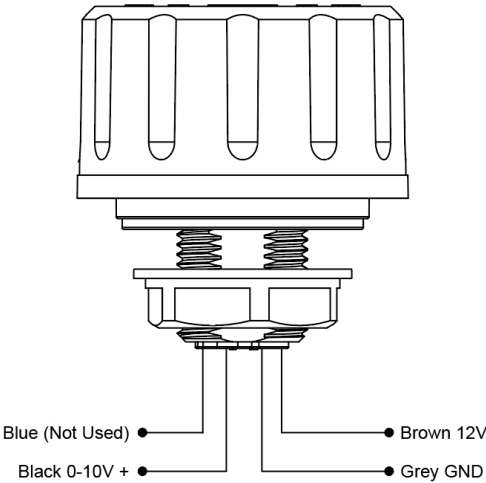
- Dimension (Unit: mm)



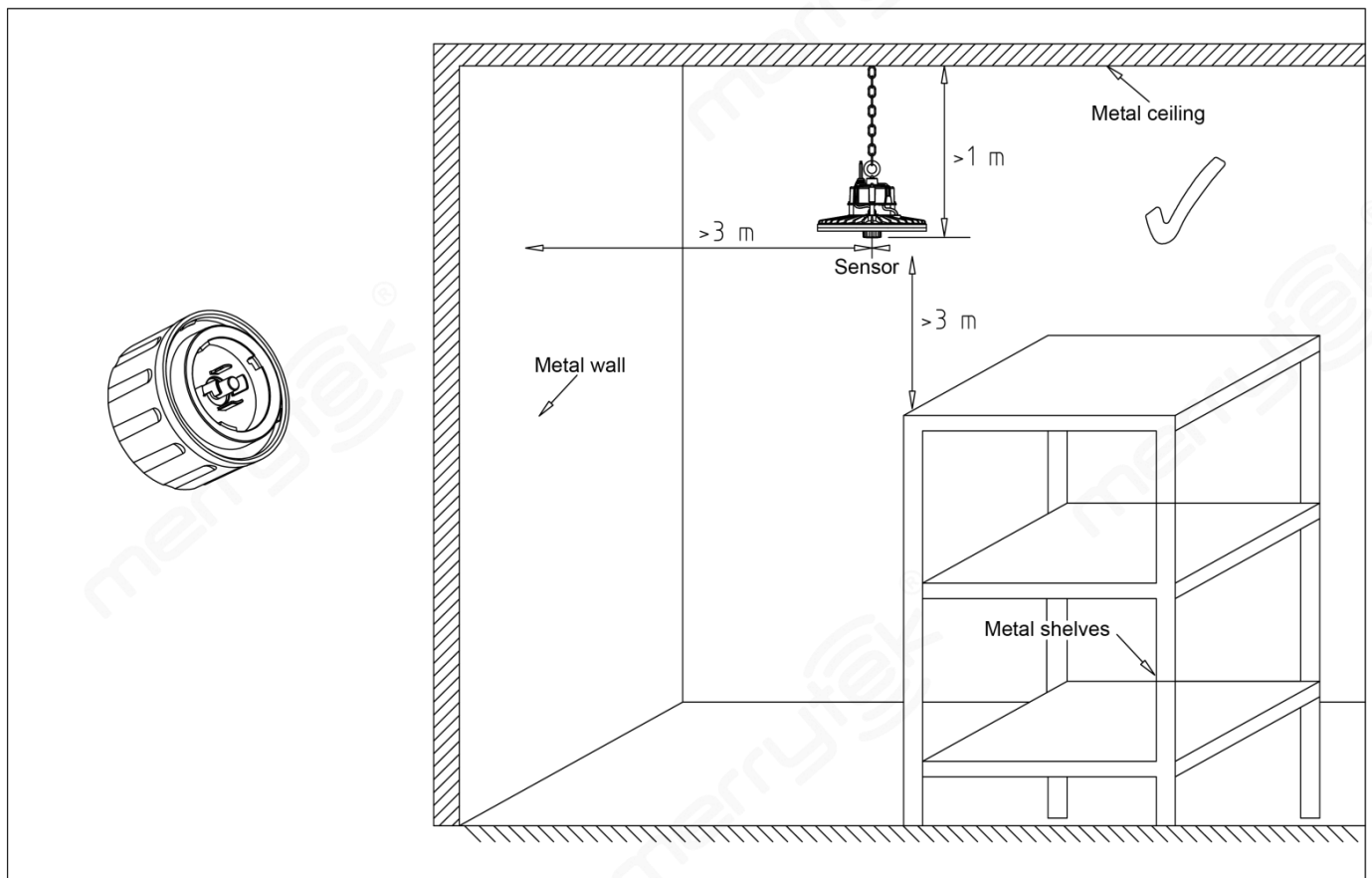
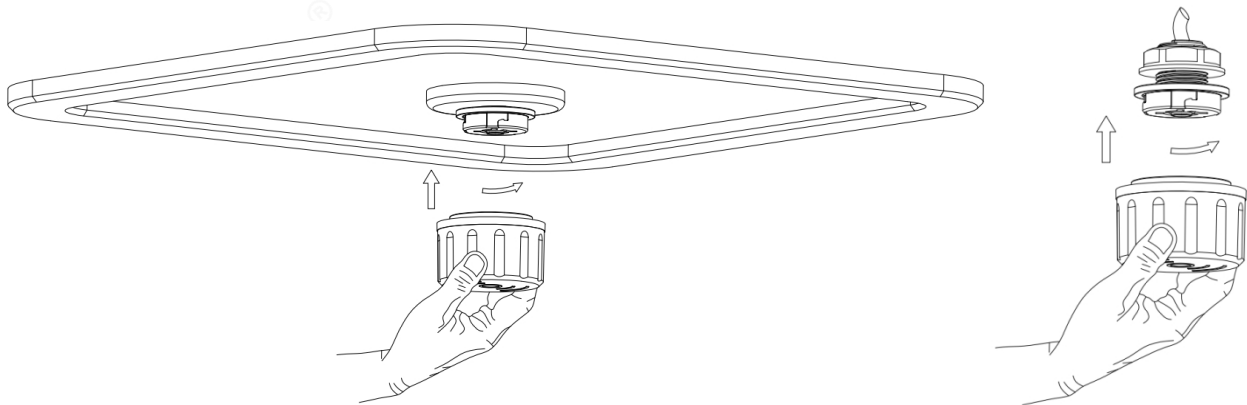
- Function

Pending

- Wiring



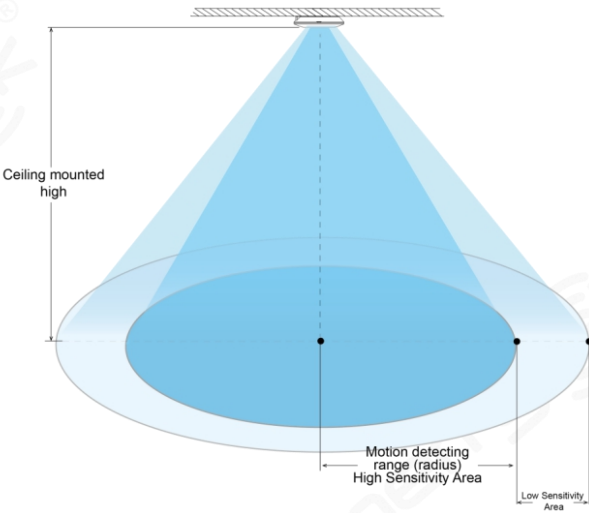
- Installation Instruction (Zhaga Book 18 can be rotatable installed)



Note:

When installing, please note that the microwave antenna plane cannot be blocked by metal.

【Detection Range】



【Remote Control】



Instruction

Remote Control Setting	Button	Remarks
		Turn off wireless transmission
		Recover wireless transmission
		Long press the same channel No. to several lights for grouping. Lights flash 1 time means set successfully. Can build maximum 8 different groups. Short press the channel No., the lights in the same group will flash 3 time.
		Short press the channel No. , the lights in the same group will flash 3 time. And then short press the sync button to synchronize sensor parameters to all lights in the same group, including detection area, hold time,stand-by period, daylight sensor and stand-by dim level. After the synchronization is successful, the lights in the same group will flash 3 time.
		Receiving mode setting. Short Press 'Rx' and grouping button 1 to 8 within 3 sec, the sensor can receive several different signal from other groups, max. 4 groups. For example, suppose sensor A is set in group 1, if press 'Rx' and '2', it can receive the trigger from both group 1 and 2. Only press 'reset' can to cancel this mode.
		Short press this button to set the stand-by dim level, 10% or 30%.
		Short press 'ON/OFF' button to disable the sensor function,the light will works as normal LED light.The 'ON/OFF' button is with memory function after power recovery.Press 'sensor motion' button to recover the sensor function and device memories the last sensor programming.
		+/- to set the light at its full brightness and decrease by 2% each time pressing
		Long pressing for 3s to recover factory setting and clear groups. Detection Sensitivity: 100%, Hold time: 10s, Daylight sensor: disable, Stand-by period: 0s, stand-by dim level: 10%.
		Short press to select detection area, 25% is the shortest range. 100% is the maximum.
		Hold Time: 30s, 1min, 3min
		Stand-by Period: 5min, 10min, +∞
		Daylight sensor: 1. Stand-by period set to 5min or 10min. Enable daylight threshold mode. Light will turn on when ambient light level below the threshold value if with motion trigger. 2. Stand-by period set to +∞, daylight priority is enabled. Light will automatically turn ON/OFF according to ambient light level against setting below. 3. Press 'HIGH' button, Daylight sensor is disabled.

Conditions	Stand-by period set to +∞		Stand-by period set to 5min or 10min
Function	ON	OFF	Daylight Threshold
LOW	<15Lux	≥100Lux	<15Lux
MED	<50Lux	≥150Lux	<50Lux
HIGH	Disabled		

【Initialization】

- 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.

【Default Setting】

Sensitivity: 100% Hold time: 10s Daylight sensor: Disable Hold time: 0s Stand-by period: 0%

【Application Notice】

- Sensor should be installed by a professional electrician. Please turn off power before installing, wiring.
- 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/65kg 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.
- Sensor parameters may need to be reconfigured in different installation environments, please refer to the following instructions or contact the manufacturer
- 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.
- The installation height of the sensor product cannot exceed 15 meters, and the optimal height is 12 meters. The distance between the two sensors should be greater than 3m.
- When the sensor is installed in a metal lamp, on a metal reflective surface, or in a small closed environment, the microwave will be reflected multiple times and cause false triggering. Please reduce the sensitivity of the sensor or contact the manufacturer for technical support.
- 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.
- 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.
- 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 65mA
- For the new installation environment, it is recommended to first install and test 5pcs prototypes before bulk installation