

# Specification

**Product Name:** 

**Network Sensor** 

**Product Model:** 

MC079D IR ZB

Version Release / Change Date		Reason	Publishing
V1.0	V1.0 2025.06.16		James.Guo
at			
39			



## [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
- PIR motion detection sensor
- Indoor maximum mounting height is 12m
- All sensor parameters can be set by remote control
- Support wireless 2.4G networking



## [Parameter]

Input					
Rated Voltage	12±1V DC	C			
Working Current	35±5mA				
Ripple Voltage	<100mVp-p				
Output					
Output Signal	0-10V dimming sign	al	$\langle n \rangle$		
Sensor parameters					
Detection mode	PIR detection				
Detection Area	25%/50%/75%/1009	% (Remote control setting)			
Hold Time	5s/30s/1min/3min/5	min/10min/20min/30min (Remote	control setting)		
Stand-by Period	0s/10s/1min/3min/5min/10min/30min/+∞ (Remote control setting)				
Stand-by DIM Level	10%/20%/30%/50% (Remote control setting)				
	Normal daylight:	5Lux/15Lux/30Lux/50Lux/100	5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/Disable		
	Normai daylight.	(Remote control setting) (Amb	(Remote control setting) (Ambient light diffusion)		
		ON	OFF		
Daylight Sensor	Daylight priority	5Lux/15Lux/30Lux/50Lux	on value + (50-150Lux)		
		100Lux	on value + (50-150Lux)		
		150Lux	on value + (50-150Lux)		
		(enter daylight priority mode;	reference to remote manual)		
Detection Area(Radius)	Ceiling mounting height 12m: r≥4m@0.3m/s, r≥3m@1m/s				
Mounting Height	10m (12m Max )				
Wireless parameters					
Working Frequency	2.4GHz	2.4GHz			
Transmitting Power	6dBm	6dBm			
Group nodes	Max 32 PCS (one group)				
Transmitting Distance	Point to point transmit 15m Max				
Environment					
Working Temperature	-20°C-55°C				
Storage Temperature	-40°C~80°C, humidity≪85% (Non-condensing)				
<b>Certification Standard</b>	ls				
Certified	CEUL				
Environmental	Comply with RoHS 2.0, Reach requirement				



requirements			
IP Rating	IP65		
Other			
Wiring	Standard Zhaga Book 18 connector		
Installation	External		
Package	Clapboard+box (K=A)		
Net Weight	39±2g		
Lifetime	5 years warranty@Ta		

## [Function]

Stand-by Period set "0s"		
Others de la construction de la		
Stand-by Period set as "+ $\infty$ "		
Stand by Davied act as "40-14 min/2min/Emin/40 min/20 min"		
Stand-by Period set as "10s/1min/3min/5min/10min/30min"		
Remote set DH Mode+Daylight Sensor 100L/200L/300L/400L/500L/600L		
Remote set DH Mode+Daylight Sensor "5Lux/15Lux/30Lux/50Lux/100Lux/150Lux"		
Remote control setting group (Ex: 1~16), set Rx receiving signal		

# [Product Information]

• Dimension (Unit: mm)







Function

N/A

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] MH17

Stremments       Description to sum the screen share off.         Image: Stremments       Image: Stremments         Image: Stremments       Image: Stre	Remote Control Setting	Function	Button	Remarks	
		Screen wake-up		Short press to wake the screen when off.	
Image: Second			Sand		
Weight of BBB       Description         0       1000       10			<u>Serie</u>		
With BBS       With BBS         0       BBS       0         0       BBS       Comparison       0         0       BBS       Comparison       0         0       BBS       Comparison       0         0       BBS       Comparison       0       0         0       BBS       Comparison       0			ОК	Short press to transmit the flashing parameter on the screen, and the light will flash once after	
				Press "	
ub 888*       Q. 887- (B)       Image: Set of the				1. General parameters (see Figure 1)	
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Image: Set 1       Bit A DBB A D					
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R. 2 BB       R. 4 BB         Service       Image: Service	Rx1 88 Rx2 88	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Q D	Q         Stand-by Period         0s/10s/1min/3min/5min/10min/30min/99(99:stand-by period+∞)	
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Image:					
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Long press to turn ON the light, which can be controlled to permanently ON. If there are several lights in the same group, all lights will be ON.         Reset       Image set of turn ON the light, which can be controlled to permanently ON. If there are several lights in the same group, all lights will be ON.         Turn the screen backlight on/off       Image set of turn on the screen backlight on/off.         Short press to turn the screen backlight on/off.       Short press to turn the sensor indicator on/off (if available).         Enable wireless settings options/ wireless networking function. Upon successful setting, the light will flash once.       Dig press to read the wireless settings options on the remote control.         Before press to disable the wireless networking function. Upon successful setting, the light will flash once.       Dig press to disable the wireless networking function. Upon successful setting, the light will flash once.         Dis a bit wire less settings options/ wire is networking function.       Image set of the sensor will flash once, and the screen will display all sensor parameters and networking function or available for parameter settings of the current wireless networking sensor. Upon successful setting, the light will flash once, and the screen will display all sensor parameters and networking function not available for parameter query.         Synchronize       Image       Short press to synchronize the current sensor parameter settings to other sensors. Upon successful synchronization process takes 3-5 seconds, during the sensor. Upon successful synchronize into parameter settings on there sensor. Upon successful synchronize into parining mode and the light flash. <tr< td=""><td></td><td></td><td rowspan="2">(Sensor ON</td><td>press to turn on the sensor function for all products in the same group.</td></tr<>			(Sensor ON	press to turn on the sensor function for all products in the same group.	
Reset       Image: Set of the set of the sensor, and light flash once, restoring the sensor parameters to the default factory settings.         Turn the screen backlight on/off       Image: Settings       Long press to turn the screen backlight on/off.         Short press to turn the screen backlight on/off.       Short press to turn the screen backlight on/off.         Enable wireless settings options/       Image: Settings       Image: Settings         Vireless net working function.       Image: Settings options/       Image: Settings options/         Vireless net working function.       Image: Settings options/       Image: Settings options/         Vireless net working function.       Image: Set of Settings options/       Image: Set of Settings options on the remote control.         Disa ble wireless networking function.       Image: Set of Settings options/       Image: Set of Settings options on the remote control.         Uook up       Image: Set of Settings options on the remote control.       Settings options/         Synchronize       Image: Set of		light permanently on			
Reset       factory settings.         Turn the screen backlight on/off       Long press to turn the screen backlight on/off. Short press to turn the sensor indicator on/off (if available).         Enable wireless settings options/ wireless networking function       Inr cold infigit press to open the wireless settings options on the remote control. Briefly press to enable the wireless networking function. Upon successful setting, the light will flash once.         D is able wireless networking function       Inr cold infigit press to close the wireless networking function. Upon successful setting, the light will flash once.         Look up       Inr cold infigit press to close the wireless networking function. Upon successful setting, the light will flash once.         Short press to close the wireless networking function. Upon successful setting, the light will flash once.         Look up       Inr cold infigit press to query the specific parameter settings of the current wireless networking sensor. Upon successful query, the sensor will flash once, and the screen will display all sensing parameters and networking parameters of the sensor. Note: 1. After each query, waits seconds before querying again. 2. Sensors without wireless networking ing function on available for parameter query.         Synchronize       Imr       Imr         Imr       Imr       Short press to synchronize the current sensor parameter settings to other sensor in the same group (network settings cannot be synchronized). The synchronization process full synchroni- zation, the lights in the same group will flash three times.         Network pairing       Imis       For senso			$\cap$		
backlight on/off       Image: Short press to turn the sensor indicator on/off (if available).         Enable wireless settings options/ wireless networking function       Enable wireless settings options on the remote control. Briefly press to enable the wireless settings options on the remote control. Briefly press to enable the wireless settings options on the remote control. Briefly press to disable the wireless settings options on the remote control. Briefly press to disable the wireless networking function. Upon successful setting, the light will flash once.         D is able wireless networking function       Image press to disable the wireless networking function. Upon successful setting, the light will flash once.         Look up       Image press to disable the wireless networking function. Upon successful setting, the light will flash once.         Short press to disable the wireless networking function. Upon successful setting, the light will flash once.         Look up       Image press to disable the wireless networking function. Upon successful setting, the light will flash once.         Short press to synchronize the current sensor will flash once, and the screen will display all sensing parameters of the sensor. Net : After each query, wait 5 seconds before querying again. 2. Sensors without wireless networking function not available for parameter query.         Synchronize       Image       Short press to synchronize the current sensor parameter settings to other sensors in the same group (network setting: cannot be synchronized). The synchronization process takes 3-5 seconds, during this period, make sure the remote control is anded at the sensor. Upon successful synchroni- zation, the light lish.		Reset	Reest		
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options/ wireless networking function       Image: State Device Uption the Wireless networking function. Upon successful setting, the light will flash once.         D is a b le wireless networking function       Image: State Device Uption the Wireless networking function. Upon successful setting, the light will flash once.         D is a b le wireless networking function       Image: State Device Uption the Wireless networking function. Upon successful setting, the light will flash once.         Look up       Image: State Device Uption the Sensor: Note: 1. After each query, waits Seconds before querying again. 2. Sensors without wireless networking function not available for parameters of the sensor. Note: 1. After each query, waits Seconds before querying again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query, waits Seconds before querying again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query, waits Seconds before querying again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query, waits Seconds before querying again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query waits Seconds before query waits seconds before query into parameter query. Note: 1. After each query waits seconds before query waits seconds before query ing again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query waits seconds before query ing again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query waits seconds before query ing again. 2. Sensors upon successful synchroniz aton, the lights print of a mater at the sensor. Upon successful s			(100)		
options/ wireless networking function       Image: Status option the wireless networking function. Upon successful setting, the light will flash once.         D is a b le wireless networking function       Image: Status options options on the remote control. Briefly press to close the wireless networking function. Upon successful setting, the light will flash once.         D is a b le wireless networking function       Image: Status options on the remote control. Briefly press to close the wireless networking function. Upon successful setting, the light will flash once.         Look up       Short press to query the specific parameter settings of the current wireless networking sensor. Upon successful query, the sensor will flash once, and the screen will display all sensing parameters and networking parameters of the sensor. Note: 1. After each query, wait 5 seconds before querying again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query, wait 5 seconds before querying again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query, wait 5 seconds before querying again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query, wait 5 seconds before querying again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query, wait 5 seconds before querying again. 2. Sensors without wireless network- ing function not available for parameter query. Note: 1. After each query wait 5 seconds before querying again. 2. Sensors in the same group (network settings cannot be synchronized). The synchronization process takes 3-5 seconds, during this period, make sure the remote control is aimed at the sensor. Upon successful synchroni- zation, the light press to adj		Enable wireless settings		I and proce to open the wirelace cattings options on the remote control	
function       Disable wireless         Disable wireless       Long press to close the wireless settings options on the remote control.         Briefly press to disable the wireless networking function. Upon successful setting, the light will flash once.         Look up       Image: Control wireless networking function.         Look up       Image: Control wireless networking function.         Short press to guery the specific parameter settings of the current wireless networking sensor. Upon successful query, the sensor will flash once, and the screen will display all sensing parameters and networking parameters of the sensor.         Note:       After each query, wait 5 seconds before querying again. 2. Sensors without wireless networking function not available for parameter query.         Synchronize       Image: Control wireless to synchronize the current sensor parameter settings to other sensors in the same group will flash three times.         Network pairing       Image: Control wireless to synchronize the current sensor parameter setting function not available for parameter of the sensor.         Network pairing       Image: Control wireless to synchronize the sensor will display all sensors in the sensor into pairing mode and the light flash three times.         Network pairing       Image: Control wireless to synchronize the current sensor parameter setting to parameter setting to parameter query.         Network pairing       Image: Sensors with Bluetooth or ZigBee networking function, long press this button to put the sensor into pairing mode and the light flash.         Co		options/	RF ON	Briefly press to enable the wireless networking function. Upon successful setting, the light will flash	
settings options/ wireless networking function       Image options/ wireless networking function. Upon successful setting, the light will fash once.         Look up       Short press to guery the specific parameter settings of the current wireless networking parameters and networking parameters of the sensor. Note: 1. After each guery, wit5 seconds before guerying again. 2. Sensors without wireless network- ing function not available for parameter guery.         Synchronize       Short press to synchronize the current sensor parameter settings to other sensors. Note: 1. After each guery, wit5 seconds before guerying again. 2. Sensors without wireless network- ing function not available for parameter guery.         Network pairing       Image         Network pairing       For sensors with Bluetooth or ZigBee networking function, long press this button to put the sensor into pairing mode and the light fash.         Color temperature control       Color temperature control       Briefly press to adjust the color temperature if the sensor supports color temperature control Color temperature gotion: 2700K/3000K/4500K/5000K         Switch sensor mode       Mare       Short press to switch sensor modes (if the sensor supports the corresponding modes) M: motion mode MS: motion + minor motion + ME: motion + breathing MBS: motion + minor motion +				once.	
wireless networking function       wireless in the work of the wireless in the work of the wireless network ing function. Open successful secting, the ugit wireless fash once.         Look up       Short press to query the specific parameter settings of the current wireless networking sensor. Upon successful query, the sensor will flash once, and the screen will display all sensing parameters and networking parameters of the sensor.         Synchronize       Short press to synchronize the current sensor parameter settings to other sensors in the same group (network settings cannot be synchronized). The synchronization process takes 3-5 seconds, during this period, make sure the remote control is a immed at the sensor. Upon successful synchroni- zation, the lights in the same group will flash three times.         Network pairing       Network pairing mode and the light flash.         Color temperature control       Gr         Briefly press to adjust the color temperature if the sensor supports color temperature control color temperature option: 2700K/3000K/4500K/5000K         Switch sensor mode       Mase			_	Long press to close the wireless settings options on the remote control.	
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Synchronize       Image: Synchronize         Synchronize       Image: Synchronize         during this period, make sure the remote control is aimed at the sensor. Upon successful synchronization, the lights in the same group will flash three times.         Network pairing       For sensors with Bluetooth or ZigBee networking function, long press this button to put the sensor into pairing mode and the light flash.         Color temperature control       Gr         Briefly press to adjust the color temperature if the sensor supports color temperature control         Color temperature       Gr         Switch sensor mode       Short press to switch sensor modes (if the sensor supports the corresponding modes)         Miss       Miss			~	Short press to synchronize the current sensor parameter settings to other sensors in the same	
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			0.00-0.00	preaming	







**MH15** 





## [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, Stand by DIM Level: 10%

#### [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 temperature and etc. When ambient temperature approaches the human body temperature range (36°C~37°C/96.8~98.6°F), PIR motion detection will significantly weaken or non-responsive. When ambient temperature or LED tray temperature is higher than 55°C/131°F, false triggering may happen, please try to reduce detecting sensitivity to improve. If stays false triggering, the PIR sensor should not suitable to be used in the space.

• 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.

 PIR is a pyroelectric infrared sensor that detects changes in infrared rays. Pls pay attention to the following matters during actual use, such as: detecting heat sources other than the human body, the temperature of the heat source does not change or the heat source does not move, and other related



environmental factors and violations of the PIR application principle impact.

- When detecting heat sources other than the human body due to the following phenomena, the PIR may be falsely triggered.
  - 1. When small animals enter the detection range

2. When far-infrared rays from sunlight, car headlights, incandescent lamps, etc. are directly exposed to the sensor

3. When the temperature in the detection range changes drastically due to warm air, cold air from cold greenhouse equipment, water vapor from humidifiers, etc.

When detecting heat sources due to the following phenomena, the PIR may not trigger
 1. When there are substances such as glass and acrylic that block the transmission of far-infrared rays between the sensor and the detection object.

2. The heat source within the detection range hardly moves or moves at high speed.