VF2 SERIES NSF/ANSI2 FOOD ZONE LINEAR HIGHBAY



Project:	
Туре:	
Catalog #:	



Wattage & Color **Changing High Bay**













FEATURES

- **High performance LED LUXEON SMD**
- Lumen output 12,000 to 45,000 lumens
- Efficacy Up To 150lm/W
- LED Lifespan> 50,000 hours (Ta=30°C @L70).
- CCT: 3000K 4000K 5000K 6000K (5000K standard). RGB, Germicidal options available (consult factory).
- Aluminum alloy (AL6063) housing with white epoxy powder coat finish standard (Unpainted AL6063 available)
- 0-10V dimming. 80W-200W uses single driver, 300W uses double
- Consult factory for custom cord and wiring options. Fixture comes standard with 3ft whip and IP69K waterproof connector.
- Polycarbonate lens safe for food processing applications.
- External PIR sensor (IP65) and motion sensor options available.

MECHANICAL

- Robust AL6063 housing withstands harsh industrial environments.
- Stainless Steel suspended mounting cable and surface mounting brackets options available.
- Standard with mounting loops for chain hanging.
- Achieves -40C-55C ambient rating. Good for cold storage and high heat applications.

ELECTRICAL

- 100-277V Standard, 200-480V available
- CCT: 3000K, 4000K, 5000K, 6000K, RGB Germicidal
- Up to 150lm/W

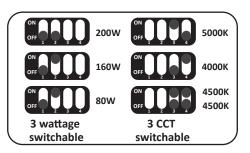
CONTROL OPTIONS

***Only IP65

- Unit mounted dipswitches CCT and wattage tunable
- Phone app/BlueTooth TUYA: CCT and dimmable
- ZIGBEE WiFi Gateway (contact factory)
- Rockwell PLC Control (contact factory)







WARRANTY AND LISTING

- UL 1598-2008
- DLC premium
- IP69K rated
- NSF/ANSI 2 (approved for food zone non-contact, splash zone, and non-food zone)
- 1500psi hosedown
- -40°C to 55°C Cold Storage/High Temp (contact factory for 65°C)
- 5 year warranty @ 24 hour operation

ORDERING INFORMATION

SERIES	WATTAGE	VOLTAGE	сст	CRI	OPTIC	DRIVER	ACCESSORIES
VF2	8 = 80W	LV = 120-277V	S = 3000K	7 = 7 0	15°	D* = Dimmable	CL** = Cable Length
	12 = 120W	HV = 200-480V	I = 4000K	8 = 80	25°	ND = Non Dimmable	MS = Microwave Sensor 60C rated
	16 = 160W		C = 5000K	85= 85	40°		PIR***= Passive Infrared Sensor 35C
	20 = 200W		K = 6000K		60°		DS = Dip-switch (Tunable)
	30 = 300W		N = 4K,45K,5K		90°		MS-T = Bluetooth Tuya phone app
	WT = 80W,160W	,200W	Tunable		120°		AH= Aluminum Housing no paint
	Tunable		C = CUSTOM		30° x 15		PM = Pendent mount 3/4" Conduit Hu
	WT-1 = 300,250	0,200	R = Red		49° x 21	0	SM= Surface mount (no loops)
	Tunable		G = Green B = Blue		136° x 7	78°	ZT = ZIGBEE
*Adds di	mming wire to top	0					RP = Rockwell PLC Control
	cable length.	NOTE:	ORDER REMO				BT = Bluetooth (Phone Tuya App)

SENSORS TO CHANGE SETTINGS

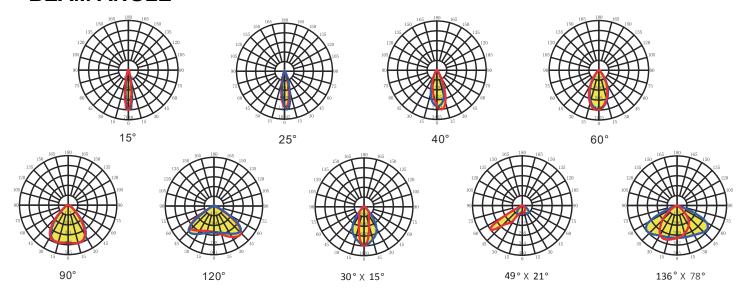
VF2 SERIES NSF/ANSI2 FOOD ZONE LINEAR HIGHBAY



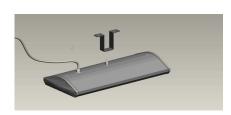
TECHNICAL PARAMETERS

Power	80W	120W	160W	200W	250W	300W
Input Voltage		AC100	-277V/AC200-480V, 5	60/60HZ		
Power Factor			>0.95			
Working Temperature			-30°C~45°C			
Lumen Efficacy			150lm/w			
Lumen	12000 lm	18000 lm	24000 lm	30000 lm	37,500	45000 lm
Color Temperature			3000K-6500K			
Beam Angle		15°/25°/40°/6	60°/90°/120°/30°X15°	/49°X21°/136°	X78°	
CRI			Ra>70/Ra>80			
Housing Color			White Aluminum			
Lifespan			>50.000 hours@L70			
Fixture Dimension	448*250*69mm		556*250*69mm		810)*250*69mm

BEAM ANGLE



Options:



Stainless Steel Surface mount bracket with power wire, no dimming



Field Interchangeable Lenses



HANDHELD CONTROLLER

HC-1 (PIR) HC-2 (Microwave)



¾" Conduit-Mounted (VICOHBRSN-PSH-PRM)



Chain/hook mounting kit

CHMK-1

VF2 SERIES NSF/ANSI2 FOOD ZONE LINEAR HIGHBAY



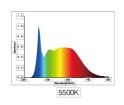


Linear Red Enhanced Lighting System provides a more uniform and continuous light pattern free of dark spots and shadows. Birds are less likely to be spooked or provoked by movement outside of the systems. As a result, these birds are noticeably less-stressed and calmer. This lighting system reduces electricity costs, decreases labor and maintenance costs, and increase flock performance.

Linear Red Enhanced Lighting has a deep red saturated light output with an added blue and green spectrum, benefiting the vision of the animals. The enhanced red spectrum is the only spectrum which stimulates a hen's hypothalamic and pineal oscillators, helping maintain circadian rhythms and promoting sexual maturity. It also stimulates the release of two reproduction regulating hormones essential for daily egg production.

SWINE LIGHTING SYSTEMS

These particular lighting systems are designed to provide exceptional light quality for both the swine herds and the humans carring for them. They are made with species-specific dim-to-red-calm technology and are suitable to be used in sow barns, gestation buildings, nurseries, gilt development unites, and finishing facilities. Our technology allows the lighting fixture to fully dim red, which swine perceive as darkness. This allows the red light to be used as a "service light," allowing workers to access the facility without disturbing or interrupting the sleep cycles of the animal.

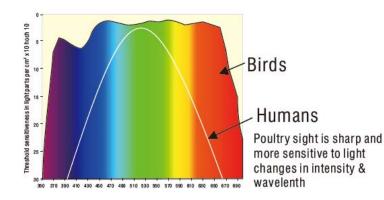


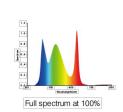


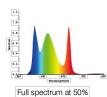
PRODUCTIVITY ENHANCEMENT

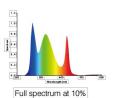
Under full spectrum plus dim to 0.2% technology, birds are calmer, less prone to run, not as jumpy, and consequently put more energy into growing.

By having more red spectrum during brooding, LED lights promote early growth. Research tests and on-farm testing have both shown immediate changes in bird behavior and improved feed conversion ratios when the lights are dimmed to the lower levels of blue enhanced spectrum.







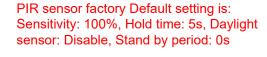


ruii spectrum at 10%



[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]		_0>

Input		
Rated voltage	12±1VDC	
Operating Voltage	12V DC	<u>@</u>
Ripple voltage	<100mVp-p	
output		

Output signal
Ø0 -10VDC dimming signal

Sensor parameters				
Detection mode	PIR detection	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)			
Installation height	Typical 10m (12m Max)			

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

Storage temperature	-20 C~+60 C Humaity. 10%-95% (non-condensing)			
Certification standards				
Certified	UL 8750(Pending)			
Environmental	Comply with PoHS 2.0. Peach requirements			
requirements	Comply with RoHS 2.0 , Reach requirements IP65			
IP Rating				



Other		
Wiring Thimble interface		
Installation requirements		
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 "+∞"

☑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

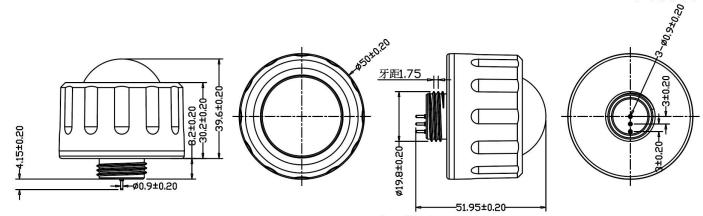
"5Lux/15Lux/30Lux/50Lux/100Lux/150Lux"

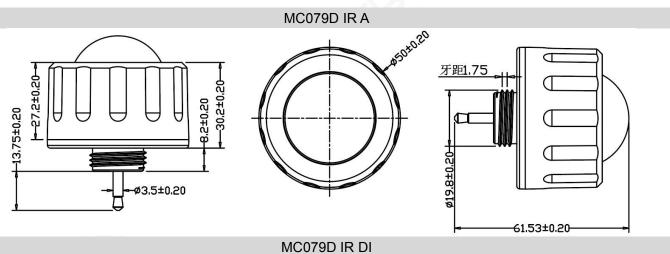
□Daylight harvesting N/A

[Product Information]

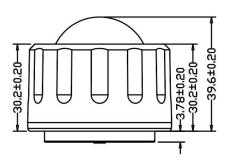
Dimension (Unit: mm)

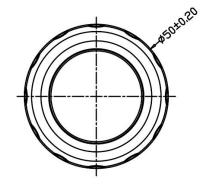
PIR sensor factory Default setting is: Sensitivity: 100%, Hold time: 5s, Daylight sensor: Disable, Stand by period: 0s

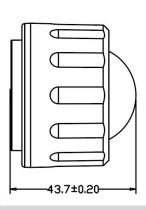






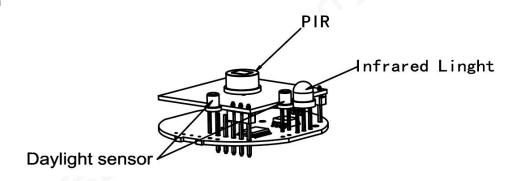


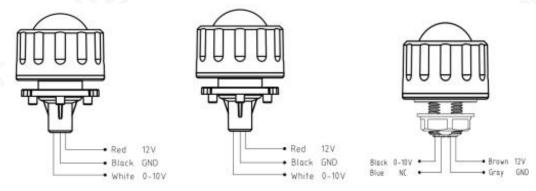




MC079D IR Z

Function

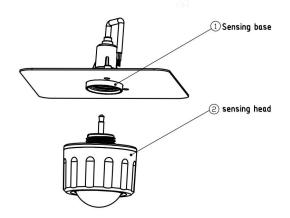


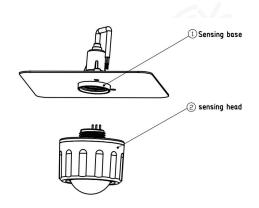


Wiring

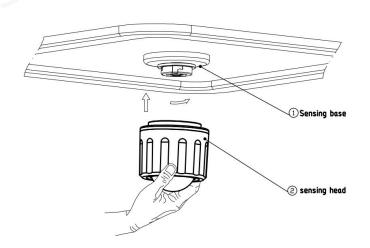
MC079D IR A MC079D IR DI MC079D IR Z

• Installation Instruction

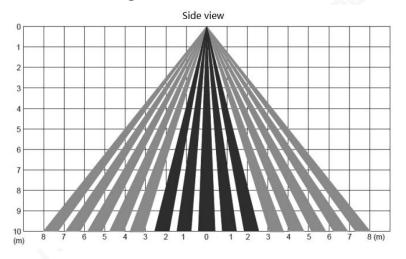


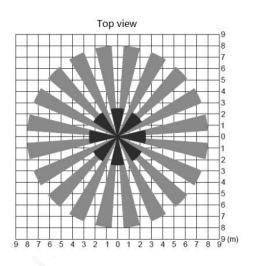






[Detection Range]



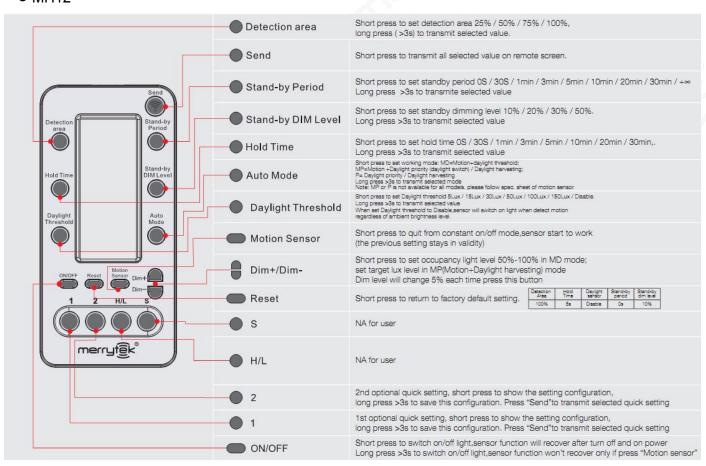




PIR sensor factory Default setting is: Sensitivity: 100%, Hold time: 5s, Daylight sensor: Disable, Stand by period: 0s

[Retome]

• MH12

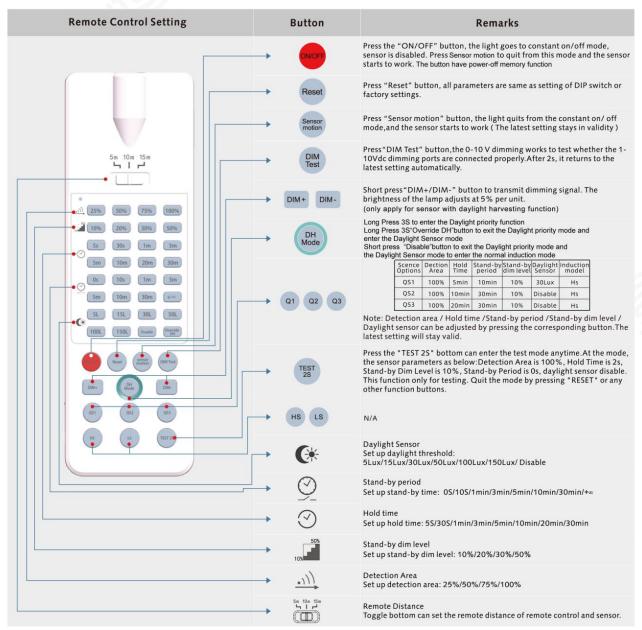




MH10

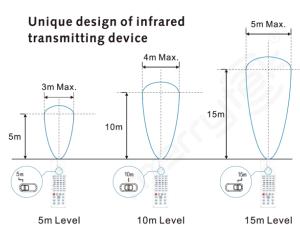


MH10 Instruction



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.



SPECIFICATION

Product Name:	High Bay Sensor for Warehouse
Model No.:	MC079D RC Z
Issue Date:	March 17, 2021

CUSTOMER APPROVED

PRODUCT DIRECTOR APPROVED	SALES CHECKED	R&D CHECKED	PREPARED
的种名	- (x) (x/h)	争犯	\$ 20 m2



*Please read the 12th instruction carefully before using this product, since the performance of DC-powered microwave products is closely related to the stability and characteristics of the auxiliary power supply of the LED driver.

1. Features



- 12V DC input, for DC systems or LED power supplies with 12V DC auxiliary power output
- 0-10V dimming port, 3 or 2 step dimming function
- Newly patent design sensor antenna with two detection mode: high sensitivity detection and interference immunity detection. (suitable for installation environments with many metal reflective surfaces)
- 15m maximum installation height, suitable for most warehouses
- Match Zhaga Book 18 base, plug in design
- Dim+/Dim- to set occupancy light level
- Daylight priority function
- 5 years warranty

2. Parameter

	DC Input Voltage	12 DC ±1V	
	Rated Voltage	12V DC	
Input	Voltage Ripple	<300mVp-p	
	Stand-by Power	<0.3W	
	Wiring	By Zhaga Book 18 connctor	
Output	Working Mode	0-10V DC	
Output	Wiring	By Zhaga Book 18 connector	
Dim Interface	0-10V Dimming	< 50mA (Non-constant source)	
	Operating Frequency	5.8 GHz ±75 MHz, ISM Band.	
	Transmitting power	1mW Max.	
	Hold time	5S/30S/1min/3min/5min/10min/20min/30min	
	Stand-by DIM Level	10%(1.4-1.6V), 20%(1.9-2.1V), 30%(2.9-3.1V), 50% (4.9-5.1V)	
	Stand-by Period	0s/10S/1min/3min/5min/10min/30min/+∞	
	Detection Area	25%/50%/75%/100%	
Sensor		Daylight threshold:	
Parameters		5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable	
	Daylight Sensor	Daylight priority: ON/OFF value	
	Daylight Sensor	(5lux/15Lux/30Lux/50Lux)/150Lux	
		100Lux/200Lux	
		150Lux/300Lux	
	Detecting Radius	See detection pattern	
	Mounting Height	15m Max	

Shenzhen Merrytek Technology Co.,Ltd



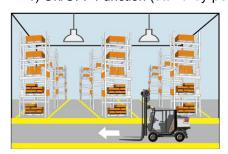
	Detecting Angle	150°(wall mounting) 360°(ceiling mounting)	
Operating Environment	Operating Temperature	-35℃+70℃	
	Storage Temperature	Temperature: -40℃+80℃; Humidity: 10%-95% (non-condensing)	
Certificate Standards	Safety standards	EN60669-2-1, EN60669-1	
	EMC standards	EN55015, EN61000-3-2, EN61000-3-3, EN61547	
	Environmental Requirement	Compliant to RoHS	
	IP Rating	IP65 when mount with Zhaga Block 18 connector	
	Protection Class	Class II	
	Installation	External mounting,integrated mounting	
	Dimension	See dimension	
	Package	White paper box	
	Net Weight	55g	
	Lifetime	5 years warranty@Ta 230V full load	

Note

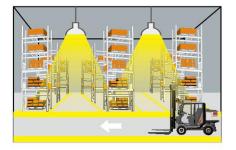
- 1. "N/A" means not available.
- 2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.3m/s.

3. Function

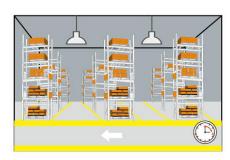
1) On/OFF Function (stand-by period be set to "0"s)



With sufficient ambient light, the light will not be switched on even if with motion signal.



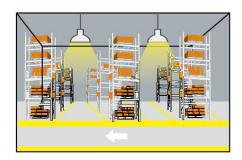
With insufficient ambient light, the sensor switches on the light when motion is detected.

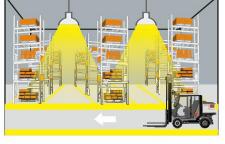


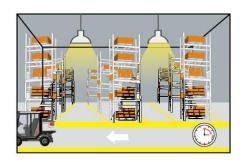
3 After elapse of hold time, the sensor switches off the light when no motion is detected.



2) 2-step dimming function (stand-by period be set to "+∞")





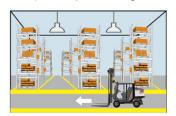


If there is no motion detected, the light will be remained at a low light level all the time.

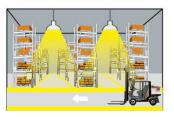
When motion is detected, the sensor will switch on the light to 100% brighteness

After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

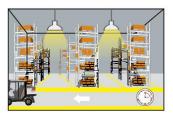
3) 3-step dimming function (stand-by period be set to "10S/1min/3min/5min/10min/30min")



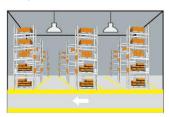
With sufficient ambient light, the light will not be switched on even if with motion signal.



With insufficient ambient light, the sensor switches on the light when motion is detected.

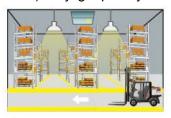


3 After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.

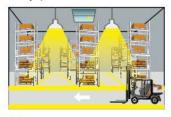


After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

4) Daylight priority (stand-by period set to +∞)



 Lamp turns on at low light level 10% in the night.



2 Motion detected, lamp automatically lights up to 100%.



3 After hold time, the lamp gradually dims to a low light level 10% if no movement detected.

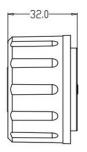


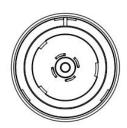
Lamp turns off after dawn.

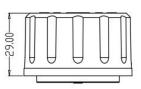


4. Dimension (mm)



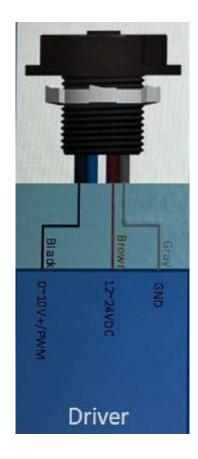








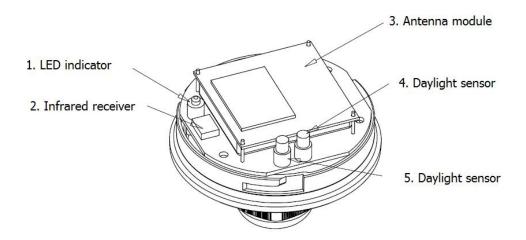
5. Wiring



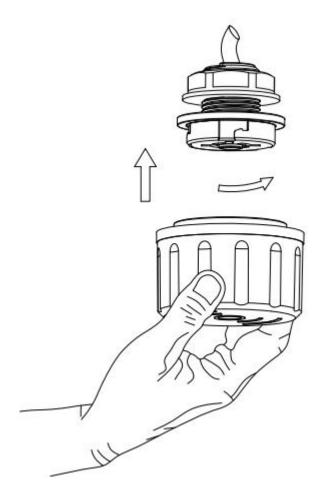
^{*}The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.



6. Structure



7. Installation (Match Zhaga Book 18 connector)



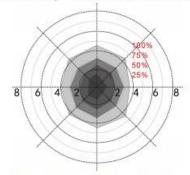
Shenzhen Merrytek Technology Co.,Ltd



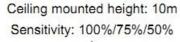
8. Radiation Pattern (Typical data)

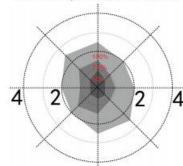
Ceiling mounting

Ceiling mounted height: 3m Sensitivity: 100%/75%/50%/25%

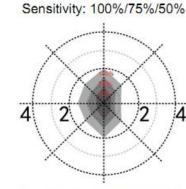


Normal moving (Speed:1m/s)



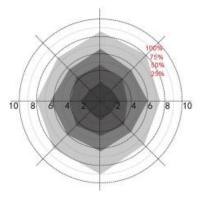


Normal moving (Speed:1m/s)

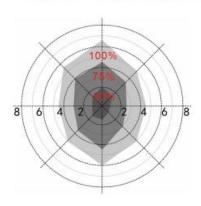


Normal moving (Speed:1m/s)

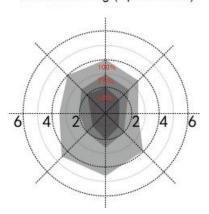
Ceiling mounted height: 15m



Slow moving (Speed 0.3m/s)



Slow moving (Speed: 0.3m/s)

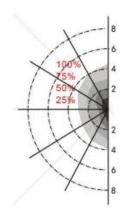


Slow moving (Speed: 0.3m/s)

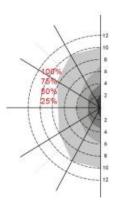
*Only 100%/75%/50% detection sensitivity is workable when installed at 15m mounting height. 25% sensitivity is not able to detect motion signal.

Wall mounting

Horizon mounted height: 2m Sensitivity: 100%/75%/50%/25%



Normal moving (Speed: 1m/s)



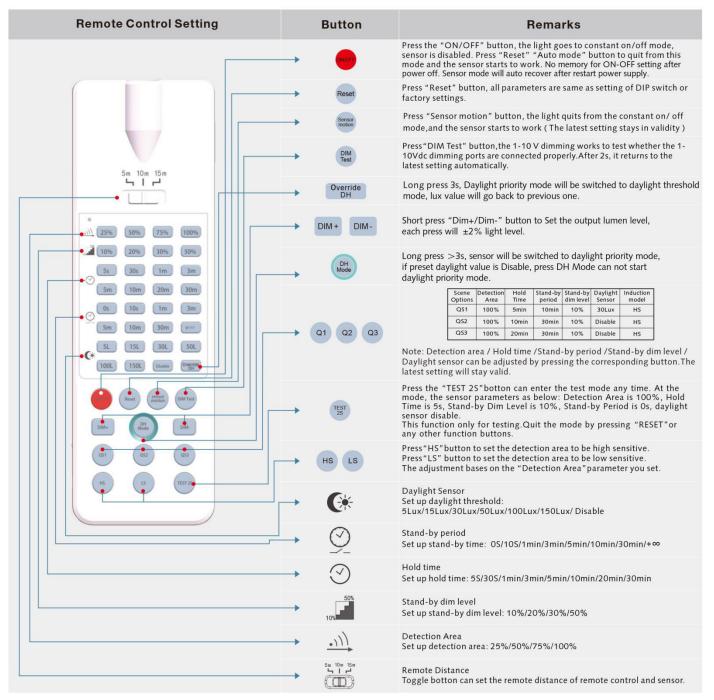
Slow moving (Speed 0.3m/s)

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9. Remote Control



10. Initialization

1) On/Off function /3-step dimming function:

Microwave sensor Factory Default setting is:
Detection area: 100%, Hold Time: 5S, Stand-by Period:
0s, Daylight Sensor: Disable,
Stand-by dim level: 10%

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the sensor is not able to detect movement.

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2) 2-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it dims the light to a low light level (set by stand-by dim level). During the initialization, the sensor is not able to detect movement.

11. Factory Setting

Detection area: 100%, Hold Time: 5S, Stand-by Period: 0s, Stand-by dim level: 10%, Daylight Sensor: Disable

12. Instruction

1) The sensor should be installed by a professional electrician. Please turn off the

power before installing, wiring, changing the setting of the DIP switch.

2) The sensor which installed in the plastic and glass lampshade will reduce the sensitivity. For every 3mm

increase in thickness, the sensitivity will be reduced by 20%.

3) The dimming performance could be different from different 0-10v drivers.

4) The light sensitivity threshold is in a sunny environment, no shadow and ambient

light diffuse reflection..Ambient lux level could be different in different environment, weather, climate, time-of-day

and season.

5) The parameters of the sensor may need to be reconfigured in different installation environments. Please refer to

the following instructions or contact the manufacturer.

6) This sensor is for indoor use only. It will affect the waterproof effect for outdoor use. Wind, rain, and moving

objects around will cause false triggering.

7) The distance between any inductive sensors should be greater than 3m.

8) Do not place the sensor close to high-density objects such as metal, glass, concrete walls, etc, false triggering

could happen. When the sensor is installed in a metal lamp, metal reflective surface, or a narrow enclosed

environment, the microwave will be reflected repeatedly and cause false triggering. Please reduce the sensitivity

or contact the manufacturer for technical support.

9) Please ensure that there are no moving signals around the sensor, such as fan,DC motor, sewer pipe, air outlet,

etc., the sensor may generate false trigger.

10) You are advised to test 5 samples before mass application of sensor in a new lighting project.

11) Due to continuous improvement, the contents of this instruction could be changed without prior notice

12) A stabilized DC power supply with stable output voltage and low ripple must be used, the power supply ripple

should be less than 300mV, and the load current should be greater than 25mA.

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SPECIFICATION

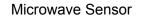
Product Name: DC Microwave Motion Sensor(Tuya	a BLEUTOOTH
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Model No.: MC079D RC ZB1

Issue Date: Sept 19th, 2022

CUSTOMER APPROVED

PRODUCT DIRECTOR APPROVED	PRODUCT CHECKED	R&D CHECKED	PREPARED
神建造	神建造	332	刘锜华



MC079D RC ZB1





*Please read the 11th instruction carefully before using this product, since the performance of DC-powered microwave products is closely related to the stability and characteristics of the auxiliary power supply of the LED driver.

1. Features



- 1) Patented high-gain microwave sensor, high anti-interference ability, no false trigger in metal installation site, especially designed for warehouse.
- 2) 12V DC input, for DC systems or LED power supplies with 12V DC auxiliary power output.
- 3) Using TUYA Bluetooth IOT module and supporting TUYA devices interconnects.
- 4) PWM high/low level, 0-10V dimming, 2-step dimming and 3-step dimming function.
- 5) Match Zhaga Book 18 base, plug-in design, waterproof.
- 6) Daylight priority function.
- 7) 12m maximum installation height, suitable for most warehouses.

2. Parameter

	Input Voltage	11-13VDC			
Input	Operating Current	< 50mA			
	Ripple Voltage	<100mVp-p			
Output	Dimming Signal	0-10VDC dimming signal			
	Operating Frequency	5.8 GHz ±75 MHz, ISM wave.			
	Transmitting Power	3mW Max			
	Detection Area	25%/50%/75%/100% Set by remote control or APP			
	Hold Time	5S/30S/1mi	5S/30S/1min/3min/5min/10min/20min/30min		
	Hold Tillle	Set by remote control or APP			
	Stand-by Period	0s/10S/1mi	0s/10S/1min/3min/5min/10min/30min/+∞		
	Stand-by Feriod	Set by remote control or APP			
		Daylight	5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable		
	Daylight Sensor	Threshold Slux/13Eux/30Eux/30Eux/130lux/130lux/Disable			
			ON	OFF	
Parameter		Daylight Priority	5lux/15Lux/30Lux/50L	150Lux	
			ux		
			100Lux	200Lux	
			150lux	300Lux	
	Stand-by DIM Level	10%(1.4-1.6V) 20%(1.9-2.1V) 30%(2.9-3.1V) 50% (4.9-5.1V)			
		Set by remote control or APP			
	Detecting Area	Ceiling Mounting(height: 10m): 0.3m/S ≥4m, 1m/S ≥3m;			
	(100% sensitivity radius)	Wall Mounting(height: 2m): 0.3m/S ≥23m, 1m/S ≥14m			
	Mounting Height	Typical value: 10m (12m Max)			
	Odly Decree Apple		82°@Xz field		
	3db Beam Angle	95°@Yz field			

	[
Wireless Module	Module Name	TUYA Bluetooth Module		
	Operating Frequency	2.4-2.484GHz		
	Transmitting Power	10dBm(max:10.5dBm)		
	Transmitting Distance	60m(visible distance)		
	Wireless Standard	Low power Bluetooth 4.2/5.0		
Environment	Operating Temperature	-25~60℃		
	Storage Temperature	-40°C+80°C Humidity≤85% (non-condensing)		
Certificate Standards	Certificate	CE		
	Environmental Requirement	Compliant to RoHS		
Otanuarus	IP Rating	IP65		
	Wiring Method	terminal	Suitable for Zhaga Book 18 connector	
	Installation	Build-in		
Others	Dimension	See Dimension diagram		
	Package	Clapboard + paper carton(K=A)		
	Net Weight			
	Lifetime	5 years warranty@Ta		

3. Function

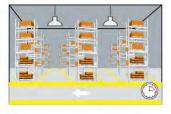
1) On/OFF Function (stand-by period be set to "0"s)



With sufficient ambient light, the light will not be switched on even if with motion signal.



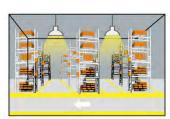
With insufficient ambient light, the sensor switches on the light when motion is detected.



Version: A0

After elapse of hold time, the sensor switches off the light when no motion is detected.

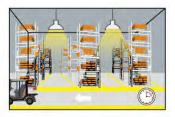
2) 2-step dimming function (stand-by period be set to " $+\infty$ ")



If there is no motion detected, the light will be remained at a low light level all the time.



When motion is detected, the sensor will switch on the light to 100% brighteness

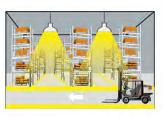


After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

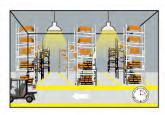
3) 3-step dimming function (stand-by period be set to "10S/1min/3min/5min/10min/30min")



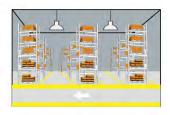
With sufficient ambient light, the light will not be switched on even if with motion signal.



With insufficient ambient light, the sensor switches on the light when motion is detected.



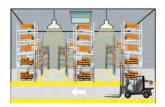
3 After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.



Version: A0

After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

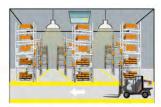
4) Daylight priority ((Set Stand-by Period to "DH Mode+5lux/15Lux/30Lux/50Lux/100lux/150lux")



Lamps turn on at a low light level in the night.



Motion detected, lamp automatically lights up to 100%.



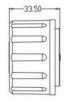
3After hold time, the lamp gradually dims to a low light level if no movement detected.



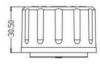
Lamps turn off under enough ambient light.

4. Dimension (mm)





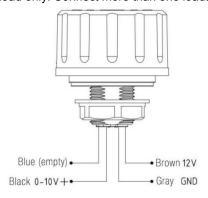






5. Wiring

*The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.



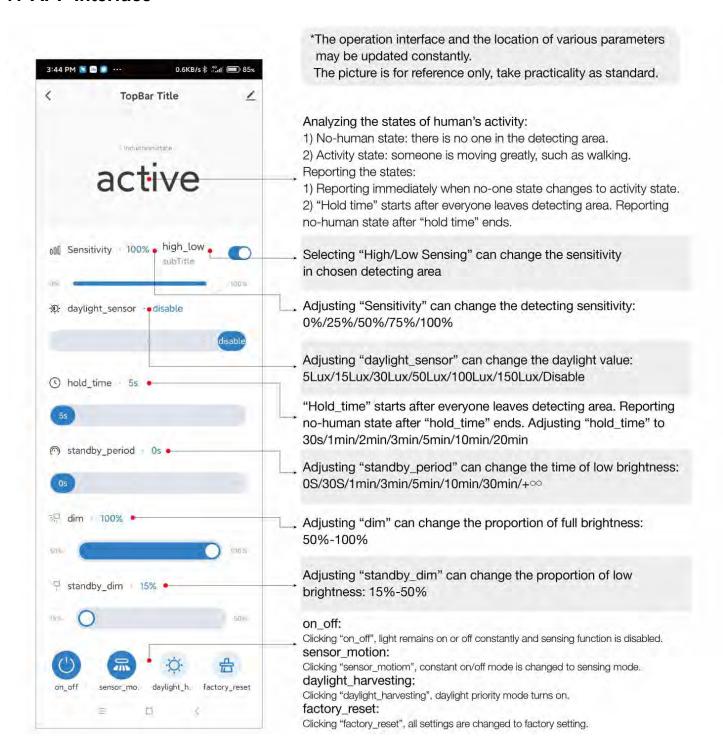
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6. Radiation Pattern

Pending

7. APP Interface





8. Initialization&Networking

- (1) When powering on for the first time, the sensor will turn the light on to 100% brightness, and the light will be turned off after 10 seconds. During initialization, movement signal will not be detected.
- (2) Download TUYA APP on the phone, install and register. Open APP and connect Bluetooth gateway.













Connecting gateway automatically when first power on. The sensor will turn the light on to the preset brightness. Movement signal will not detected. Sensor can work normally. At this moment, Bluetooth module can be paired. The sensor parameters can be set by APP after pairing successfully.





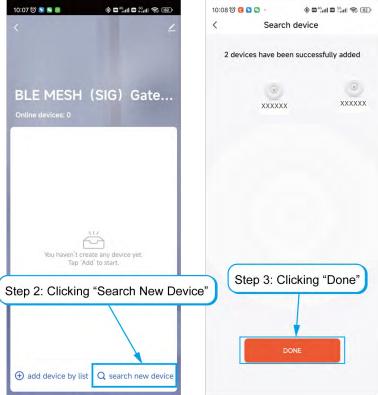
- (3) If connecting to gateway is failure when power on, the sensor can be connect to gateway by pressing the "TEST2S" button on the MH10 remote control(light flashes three time). The sensor parameters can be set by APP after connecting successfully.
 - * Using phone to screen the below QR code to download APP.





(4) Interconnection Setting(need gateway):







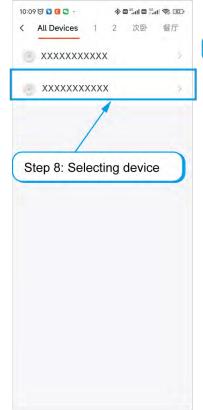


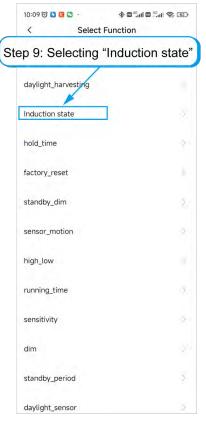


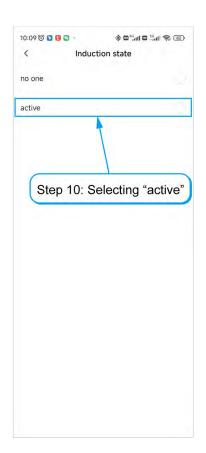
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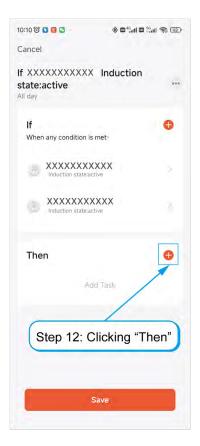






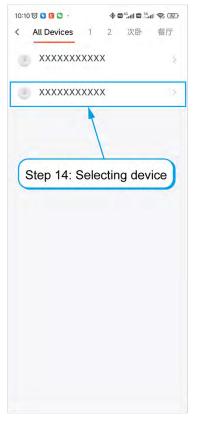


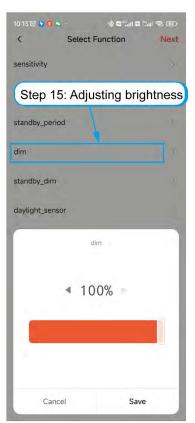




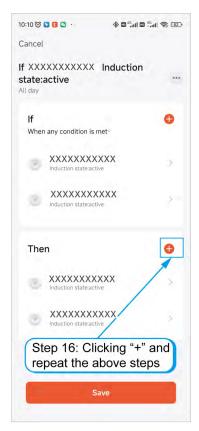


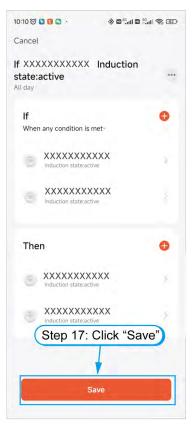












Microwave Sensor MC079D RC ZB1 Version: A0

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9. Factory Setting

Detection area: 100%, Hold Time: 5S, Stand-by Period: 0s, Daylight Sensor: Disable,

Stand-by dim level: 10% (factory setting can be changed as required)

10. Instruction

(1) The sensor should be installed by a professional electrician. Please turn off the power before installing,

wiring, changing the setting of the DIP switch.

(2) 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 high testers in an indoor open environment.

(3) This product is suitable for ceiling mounting. If wall mounting, the detecting area will enlarge which

makes microwave penetrate wall or light not turn off. Please lower the sensitivity area or contact the

manufacturer for technical support. Daylight threshold is in a sunny environment with no shadows and

ambient light diffuse reflection conditions. The values illuminantion detected by sensor may vary in

different environment, at different times, in different seasons, and in different climates.

(4) The parameters of the sensor may need to be connect again in different installation environments.

Please refer to the following instructions or contact the manufacturer.

(5) This sensor is for indoor use only. It will affect the waterproof effect for outdoor use. Wind, rain, and

moving

objects around will cause false triggering.

(6) The mounting height is no more than 12. The best height is 10 meters. The distance between any

sensors should be greater than 3m.

(7) When the sensor is installed in a metal lamp, metal reflective surface, or a narrow enclosed object, the

microwave will be reflected repeatedly and cause false triggering. Please reduce the sensitivity or contact

the manufacturer for technical support.

(8) Please ensure that there are no moving signals around the sensor, such as fan, DC motor, sewer pipe,

air outlet and so on. Otherwise the sensor may generate false trigger.

(9) Microwaves cannot penetrate metal. Do not place the sensor in a closed metal lamp or a half-closed

metal lamp and no metal or glass cover above sensor.

(10) Different 0-10V driver, different low brightness.

(11) Require stabilized DC power supply with stable output voltage and low ripple, the power supply ripple

should be less than 100mV, and the load current should be greater than 60mA.

(12) Due to continuous improvement, the contents of this instruction could be changed without prior

notice.