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SENSING MERR

SPECIFICATION

Product Name: Infrared Sensor

Model No.: MC079D RC IR

Issue Date: Sept 09, 2022

CUSTOMER APPROVED

PRODUCT DIRECTOR APPROVED	P&M CHECKED	R&D CHECKED	PREPARED
神迷患	神迷患	20032	刘锜华

Shenzhen Merrytek Technology Co.,Ltd



MC079D RC IR

Version	Model No.	Updating Reason	Stage	Date
A0	MC079D RC IR	First Version		2022-09-09

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

1. Features



- (1) High mounting PIR sensor
- (2) Mounting height 12m max
- (3) IP65 design
- (4) Earphone connector, receptacle design
- (5) Optional side mount bracket, 1/2 inch hole

2. Parameter

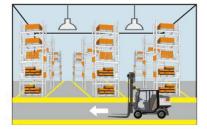
	Input Voltage	12±1VDC	
Input	Operating Voltage	12V DC	
	Ripple Voltage	<100mVp-p	
Input	0-10VDC dimming signal	Yes	
	Detection mode	PIR detection	
	Detection Area	100%/75%/50%/25%	
	Hold Time	5S/30S/1min/3min/5min/10min/20min/30min	
Sensor Parameters	Stand-by Period	0s/10S/1min/3min/5min/10min/30min/+∞	
	Daylight Sensor	Daylight threshold: 5/15/30/50/100/150lux/Disable	
		Daylight priority (photocell on/off): see Function 4	
	Stand-by DIM Level	10% , 20% ,30% , 50%	
	Detection Radius 2-4m (indoor,sensitivity 100%,no direct sunlight to sen		
	Mounting Height	Typical 10m (12m Max)	
Operating Environment	Operating Temperature	0~35 ℃	
	Storage Temperature	-20℃~+80℃ Humidity: 10%-95% (non-condensing)	
Certificate Standards	Certificate	UL 8750(Pending)	
	Environmental Requirement	Compliant to RoHS	
	IP Rating	IP65	
Others	Wiring Method	DC headphone stand (3.5mm)	
	Installation	Mount center or side of highbay	
	Dimension	See structure diagram	
	Package	Clapboard+carton (K=A)	
	Net Weight	80g	
	Lifetime	3 years warranty@Ta	
Note	When ambient temp. Is over $33^\circ C$, detection performance will be affected.		

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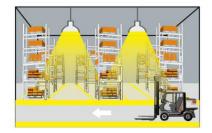


3. Function

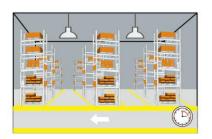
1) On/OFF Function (stand-by period be set to "0"s)



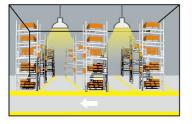
With sufficient ambient light, the light will not be switched on even if with motion signal.



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



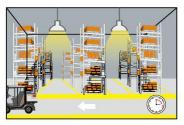
- After elapse of hold time, the sensor switches off the light when no motion is detected.
- 2) 2-step dimming function (stand-by period be set to "+ ∞ ")



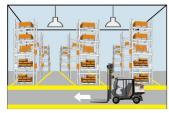
If there is no motion detected, the light will be remained at a low light level all the time.



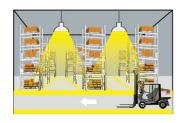
When motion is detected, the sensor will switch on the light to 100% brighteness



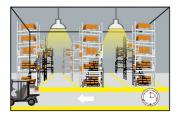
- After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.
- 3) 3-step dimming function (stand-by period be set to "10S/1min/3min/5min/10min/30min")



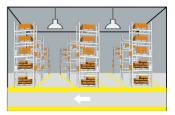
• With sufficient ambient light, the light will not be switched on even if with motion signal.



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



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.

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Version: A0

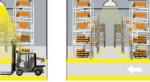
4) Daylight priority:stand-by period set to"+∞ ",and MH10 Press "DH Mode" >3S

ON Value 5/15/30/50Lux 100Lux 150Lux

OFF value 150Lux 200Lux 300Lux



31.0

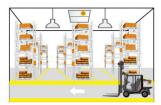


 Lamps turn on at a low light level in the night.

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



Output the second se gradually dims to a low light level if no movement detected.

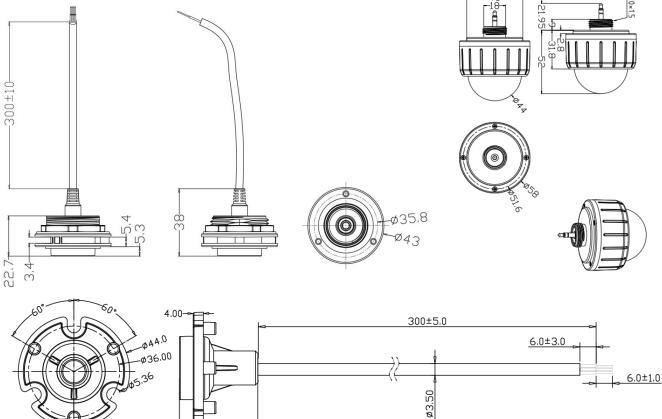


4 Lamps turn off under enough ambient light.

4. Dimension (mm)

3.1 With mounting base 1

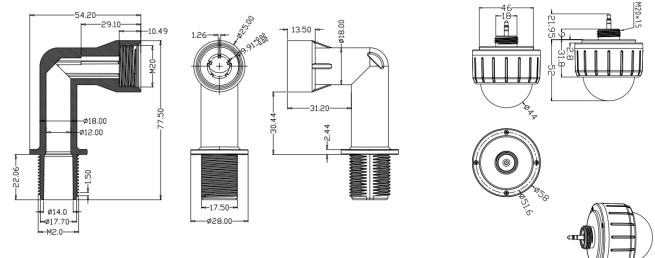
8.20(深)



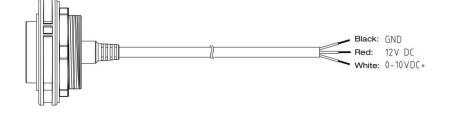
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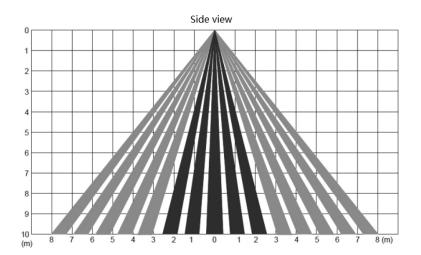
3.2 With mounting bracket 2

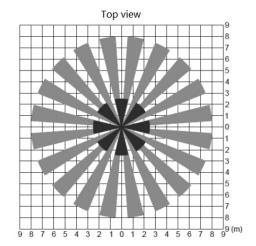


5. Wiring



6. Detection range







MH10

7. Remote Control

MH10



10%

55

5m

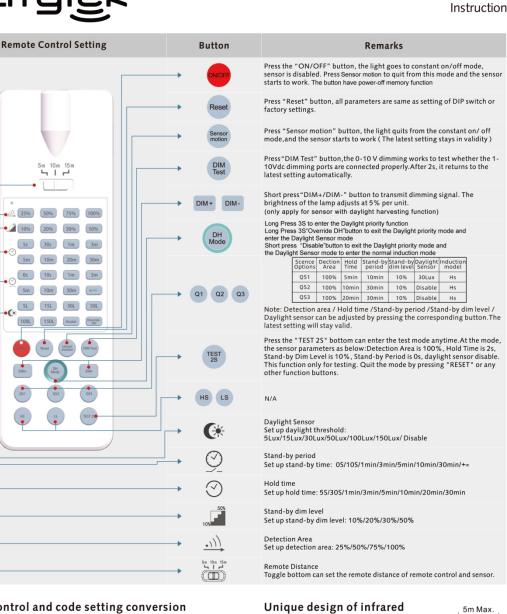
0s

5m

5L

100L

0

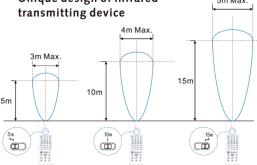


Remote control and code setting conversion

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.



10m Level

15m Level

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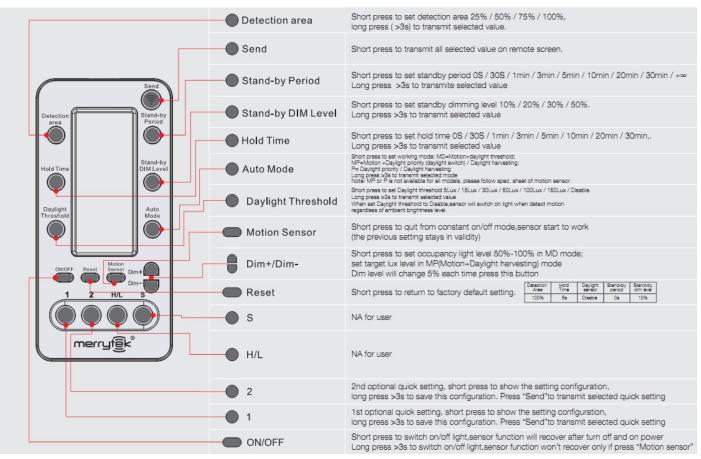
Add: No.17th Building, Dianda Guyuan Industrial Park, Mashantou, Matian, Guangming District, Shenzhen, China, 518106 Tel: +86 (0)755-2305 7253 Fax: +86 (0)755-2786 3012 Website: www.merrytek.com

5m Level



MC079D RC IR

MH12



8. Initialization

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

9. Factory Setting

Detection area: 100%; Hold Time: 5S; Stand-by Period: 0S; Daylight Sensor: Disable(factory setting can be changed as required)

10. Application Notice

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

(2) PIR sensor can't penetrate any materials, please make sure no obstacle between sensor and moving people/object.

(3) Sensor may hard to detect people if wear thick clothes in cold winter.

(4) Heat signals will be regarded as moving signals to trigger the sensor. Avoid facing sensor to air condition or other heating source.

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(5) Sensor is for indoor use only. Outdoor sunlight could affect the detection of sensor.

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

(7) The dimming performance could be different when work with different 0-10V drivers.

(8) 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.

(9) Detection distance is related to height of people, mounting height, mounting angle, working environment, and etc.

(10) Given detecting area is typical value that was measured by 165cm high testers in an indoor open environment.

(11) 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).

(12) When installing in new environment, please install and test at least 5pcs product firstly before mass installation.