

SPECIFICATION

Product Name:	Motion Sensor	
Model No.:	MC079D RC 3(daylight priority)	
Issue Date:	Mar. 13, 2020	

CUSTOMER APPROVED

PRODUCT DIRECTOR APPROVED	SALES CHECKED	R&D CHECKED	PREPARED
可是	-6x 8/h	到的	\$ 30 mg



1. Features



12/24V DC input, for DC systems or LED power supplies with 12/24V DC auxiliary power output

MC079D RC3

- 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)
- Plug-in design with IP65 water-proof design
- 15m maximum installation height, suitable for most warehouses
- Patented remote control, transmitting angle of the remote control is adjustable according to mounting height
- Dim+/Dim- to set occupancy light level
- Daylight priority function
- 5 years warranty

2.Parameter

	Operating Voltage Rage	N/A
	DC Input Voltage	12/24V DC ±1V
	Rated Voltage	12/24V
Input	No-load Power	N/A
	Stand-by Power	<0.3W
	Surge Test	N/A
	Wiring	Screw terminals
Output	Working Mode	0-10V DC
	Type of Load	N/A
	Load Capacity	N/A
	Current of Load	N/A
	Wiring	Screw terminals
	0-10V Dimming	< 50mA (Non-constant source)
Dim	Synchronous Control	N/A
Interface	High Low-level	N/A
	PWM Control	N/A
	Operating Frequency	5.8 GHz ±75 MHz , ISM Band.
Sensor	Transmitting power	1mW Max.
Parameters	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)

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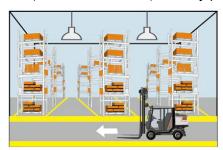
	Stand by Pariod	0c/10S/1min/2min/5min/10min/20min/+m		
	Stand-by Period	0s/10S/1min/3min/5min/10min/30min/+∞		
	Detection Area	25%/50%/75%/100%		
		Daylight threshold:		
		5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable		
	Daylight Sensor	Daylight priority: ON/OFF value		
		(5lux/15Lux/30Lux/50Lux)/150Lux		
		100Lux/200Lux		
		150Lux/300Lux		
	Detecting Radius	See detection pattern		
	Mounting Height	15m Max		
	Detecting Angle	150°(wall mounting) 360°(ceiling mounting)		
	Operating Frequency	N/A		
Wireless	Transmitting power	N/A		
Module	Transmitting distance	N/A		
oudio	Modulation mode	N/A		
	Number of coding	N/A		
Operating Environment	Operating Temperature	-35℃+70℃		
	Ctorogo Torogoroturo	Temperature: -40℃+80℃; Humidity: 10%-95%		
	Storage Temperature	(non-condensing)		
	Safety standards	EN60669-2-1, EN60669-1		
	EMC standards	EN55015, EN61000-3-2, EN61000-3-3, EN61547		
	Environmental Requirement	Compliant to RoHS		
	Certificate	NA		
Certificate	IP Rating	IP65		
Standards	Protection Class	Class II		
	Installation	External mounting,integrated mounting		
	Dimension	See dimension		
	Destas	White paper box		
	Package	writte paper box		
	Net Weight	55g		

Note

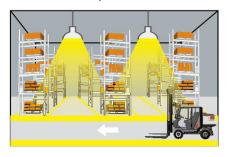
- 1. "N/A" means not available.
- 2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

3. Function

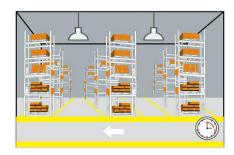
1) On/OFF Function (stand-by period be set to "0"s)



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



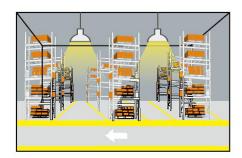
With insufficient ambient light, the sensor switches on the light when motion is detected.



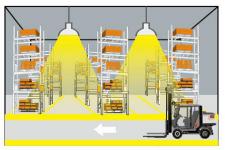
MC079D RC3

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

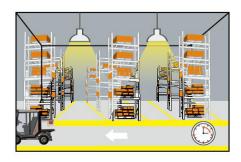
2) 2-step dimming function (stand-by period be set to "+∞")



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

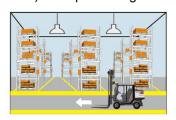


When motion is detected, the sensor will switch on the light to 100% brighteness

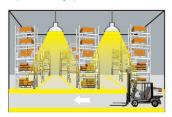


After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

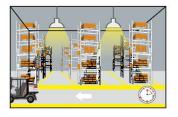
3) 3-step dimming function (stand-by period be set to "10S/1min/3min/5min/10min/30min")



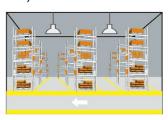
With sufficient ambient light, the light will not be switched on even if with motion signal.



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



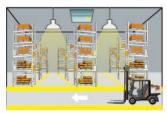
After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.



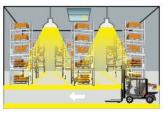
After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

merru INTELLIGENT LIGHTING CONTRO

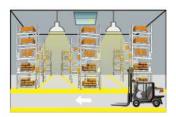
4) Daylight priority (stand-by period set to +∞)



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



Motion detected, lamp automatically lights up to 100%.



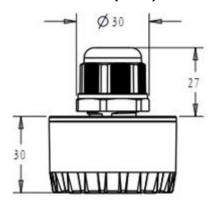
MC079D RC3

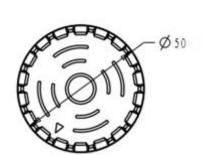
 After hold time, the lamp gradually dims to a low light level 10% if no movement detected.



4 Lamp turns off after dawn.

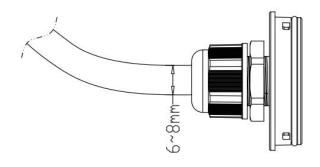
4.Dimension (mm)

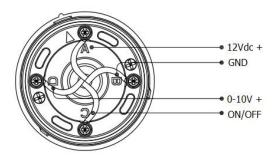






5.Wiring

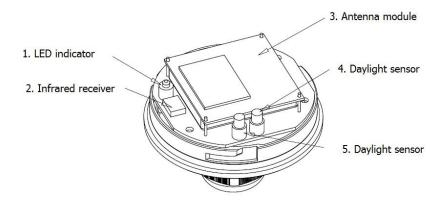




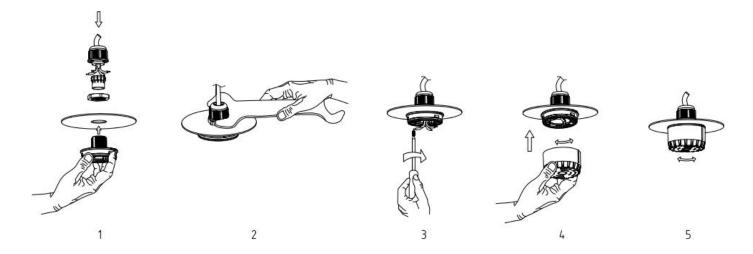
^{*}The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

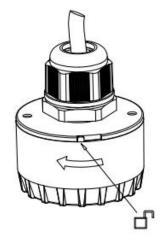


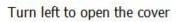
6.Structure

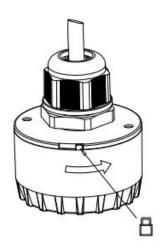


7. Installation









Turn right to lock the cover

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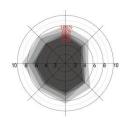
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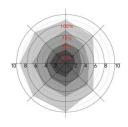
8 .Radiation Pattern

Ceiling mounting

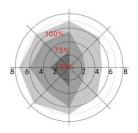
Ceiling mounted height: 3m Sensitivity: 100%/75%/50%/25% Ceiling mounted height: 12m Sensitivity: 100%/75%/50%/25% Ceiling mounted height: 15m (*) Sensitivity: 100%/75%/50%



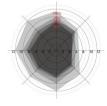
Normal moving (Speed:1m/s)



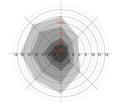
Normal moving (Speed:1m/s)



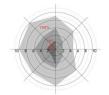
Normal moving (Speed:1m/s)



Slow moving (Speed 0.3m/s)



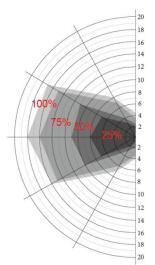
Slow moving (Speed 0.3m/s)



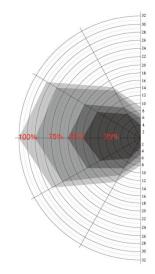
Slow moving (Speed 0.3m/s)

Wall mounting

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



Normal moving (Speed: 1m/s)



Slow moving (Speed 0.3m/s)

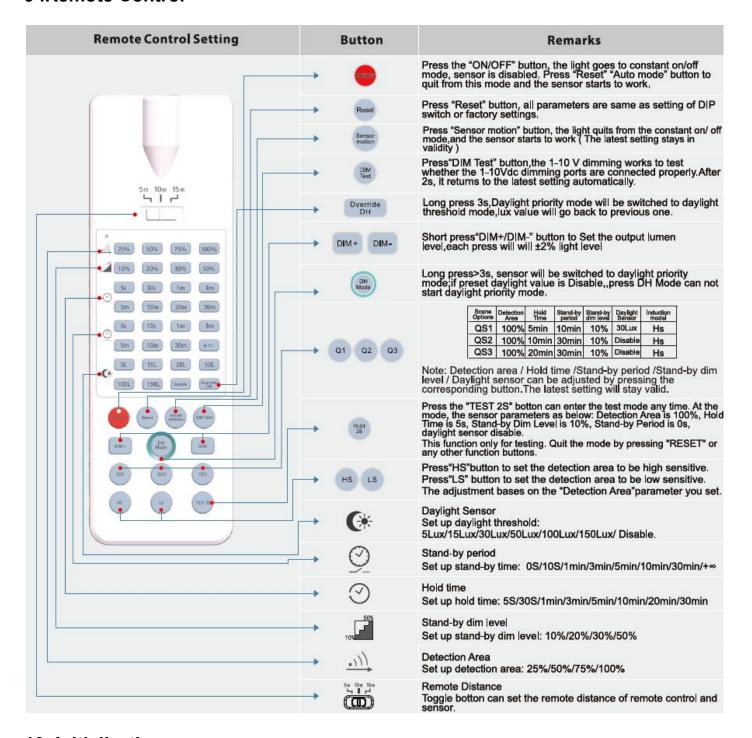
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^{*}Only 100%/75%/50% detection sensitivity is workable when installed at 15m mounting height. 25% sensitivity is not able to detect motion signal.



9 .Remote Control



10. Initialization

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

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. Application Notice

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

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FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interferenceto radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.