

Specification

Product Name:AC ON/OFF sensorModel No.:MC098S , MC098S 1

Version	Date	Reasons	Publishing
V1.0	2024.03.05		James. Guo



[Product Features]

- Low impedance microwave antenna, can effectively resist interference from 5G, WiFi, Bluetooth and other wireless signals.
- Adopting patented di-pole antenna, with strong environmental adaptability and no detection blind area.
- Products in batch production comply with RED certification, and the entire lamp certification is guaranteed.
- Dip switch design, users can easily set parameters according to needs
- Long strip shell design, suitable for tri-proof light and ceiling lamps
- Maximum installation height of 6 meters
- 5 years warranty

[Parameters]

Input							
Rated Voltage	220-240Vac 50/60Hz						
Stand-by Power	≤0.5W						
Surge Test	1KV(L/N,EN61000-4-5)						
Output							
Output Signal	ON/OFF						
Type of Load	Inductive or Resistive						
Load Capacity	400W@230Vac(Inductive) ; 800W@230Vac(Resistive)						
Max. Surge Capacity	7A relay 50A(50% Ipeak, twidth =200uS, 230Vac full load, cold start);						
Sensor Parameters							
Working Frequency	5.8 GHz ±75MHz, ISM wave band						
Transmitting Power	1mW Max.						
Detection Area(Radius)	Ceiling mounting height 3m: r≥4m@0.3m/s, r≥2.5m@1m/s; Wall mounting height 3m: r≥5m@0.3m/s, r≥4m@1m/s Test condition: Set 100% sensitivity, open 60 m ² indoor area.						
Mounting Height	3m (6m Max)						
Hold time	5s/30s/90s/5min/20min/30min (Dial code)						
Detection Area	100%/75%/50%/25%(Dial code)						
Daylight Sensor	Normal 2Lux/10Lux/30Lux//50Lux/Disable(Dial code)						
Operating Temperature	-25℃+60℃						
Storage Temperature	-40~80°C Humidity: ≤85% non-condensing						
Certificate Standards							
Certified	CE, RED						
Environmental Requirements	Comply with RoHS 2.0 Reach						
IP Rating	IP20						
Other							
Remote Model	MH10; MH16; MH03						
Wiring	Press-in Type Terminals, wire diameter: 0.5-0.75mm ²						
Installation	Built-in						
Package	Bubble bag+Clapboard + Carton(K=A)						



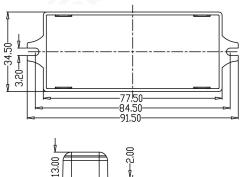
Net Weight	38 ±2g
Lifetime	5 years warranty@Ta

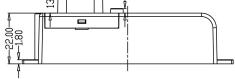
[Function]

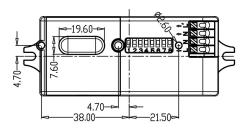
⊡ON/OFF	Light control Disable or external brightness value is lower than the set value. When the microwave sensors detects the movement of an object, the sensor triggers and enters					
function	the light-on state. It maintains the light-on state after a delay and then enters the light-off					
	state.					
□Two-step dimming function	N/A					
□Three-step dimming function	N/A					
□Daylight harvesting	N/A					
□Daylight priority	N/A					

[Product Information]

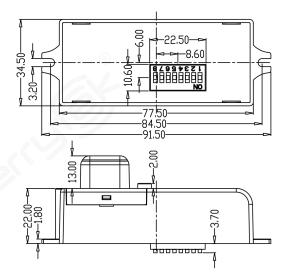
• Dimension(units: mm)

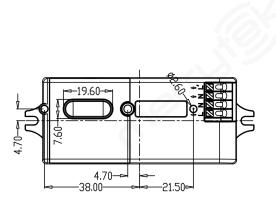






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• Function & Wiring

Product Picture





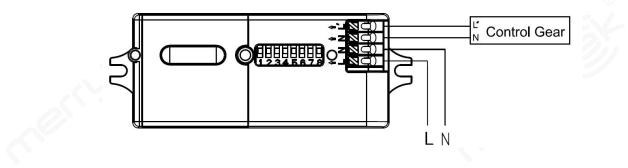
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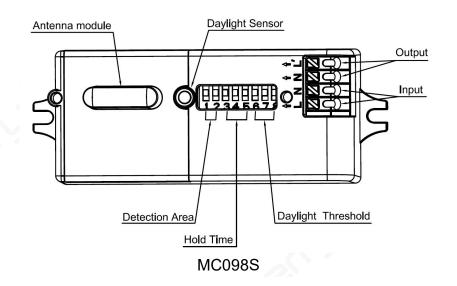


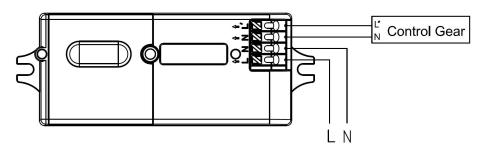
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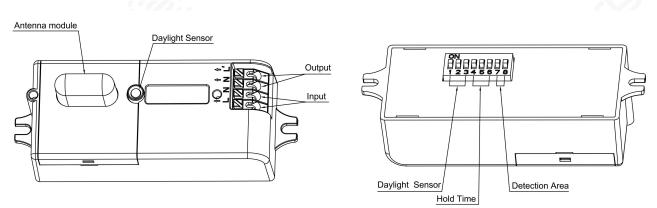
• Function & Wiring











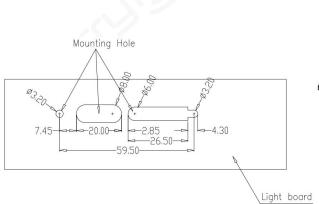
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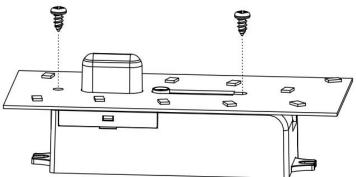




Installation

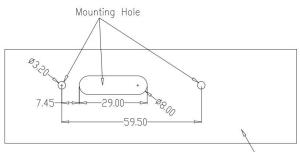
Method : -

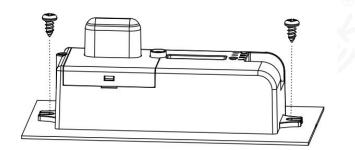




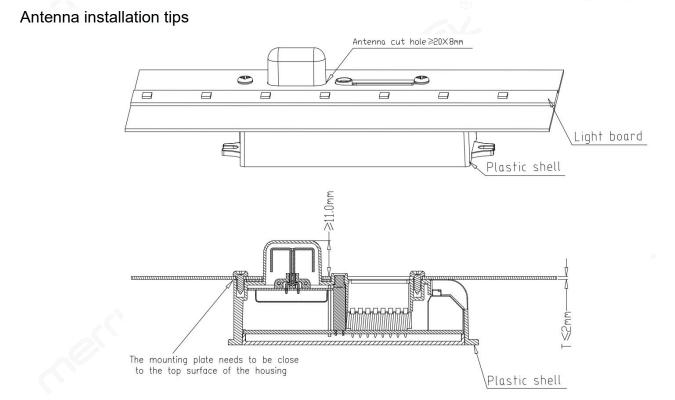
A: Cut the following buckle and using 2 screws.







Light board B: Install the sensor on the LED plate by using 2 screws



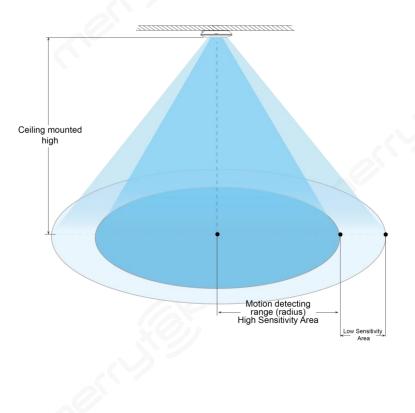
Suggestion: The bottom Angle of the light plate from the microwave antenna should be higher than 2mm, otherwise the induction distance will become closer



[DIP Switch Setting]

Functi on	Detection Area			Hold Time			Daylight Sensor				
Dial code	1	2	Detect ion area	3	4	5	Hold time	6	7	8	Light control value
Ι	ON	ON	100%	ON	ON	ON	5s	ON	ON	ON	2Lux
II	-	ON	75%	-	ON	ON	30s	ON	ON	-	10Lux
III	ON	-	50%	ON	-	ON	90s	-	ON	-	30Lux
IV	-	-	25%	-	-	ON	5min	ON	-	-	50Lux
V				ON	ON	<u> </u>	20min	-	-	-	Disable*
VI				-	-	-	30min				¢

Radiation Pattern





[Initialization]

The light will be turned on 100% brightness after power on, and will be turned off after 10 seconds. During initialization, no external motion sensing signal will be detected.

[Default Setting]

Sensitivity: 100% Hold time: 5s Daylight sensor: Disable

[Application Notice]

• The sensor should be installed by a professional electrician. Please turn off the power before installing, wiring, changing the setting of the DIP switch.

• Sensitivity area is related to moving speed of objects, size of moving objects, mounting height, mounting angle, working environment, reflecting materials and etc.. Given detecting area is typical value that was measured by 165cm/65kg testers in an indoor open environment.

• The detection area of the microwave sensor when installed on the wall will be greatly increased compared to when installed on the ceiling. If adopts wall ceiling, please reduce the sensitivity or contact our company to confirm the usage settings. The daylight thresholds are measured on a sunny day without shadow and in an ambient light diffuse reflection status. Different environment and climate cause different brightness values that daylight sensor measures.

• Sensor parameters may need to be reconfigured in different installation environments, please refer to the following instructions or contact the manufacturer.

• Sensor is for indoor use only. The waterproof effect for outdoor or half-outdoor use will be affected. Wind, rain, and moving objects may cause false triggering.

• The installation height of the sensor product cannot exceed 6 meters, and the optimal height is 3 meters. The distance between the two sensors should be greater than 3m.

• When the sensor is installed in a metal lamp, on a metal reflective surface, or in a small closed environment, the microwave will be reflected multiple times and cause false triggering. Please reduce the sensitivity of the sensor or contact the manufacturer for technical support.

• Please make sure that there are no moving signals such as fans, DC motors, sewer pipes, air outlets, etc. around the sensor, otherwise the sensor may cause false triggering.

• Microwaves cannot penetrate metal. Do not place product in a closed or a half-closed metal lamp. Neither metal nor glass is not allowed to cover above the product.