

SPECIFICATION

Product Name: ON/OFF Sensor for Tri-proof Light

Model No.: MC076S

Issue Date: September 05, 2019

CUSTOMER	APPROVED

PRODUCT DIRECTOR APPROVED	SALES CHECKED	R&D CHECKED	PREPARED
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1. Features



- Ultra-slim design for Tri-proof LED light
 - Patented needle antenna makes reliable detecting, avoid missing triggered when sensor built-in backside of metal LED plate.
- Adjustable detecting sensitivity via DIP switches, suitable to variety of installation sites.
- 5 years warranty

2. Parameter

	Operating Voltage Rage	198-264V AC, 50Hz/60Hz		
Input	DC Input Voltage	N/A		
	Rated Voltage	220-240V AC, 50Hz/60Hz		
	No-load Power	N/A		
	Stand-by Power	≤0.5W		
	Surge Test	LN: 1kV		
	Working Mode	ON/OFF function		
	Type of Load	Inductive or Resistive		
	Load Capacity	400W(Inductive) ; 800W(Resistive)		
Output	Current of Load	N/A		
	Max. Surge Capacity	30A (50% I _{peak} , t _{width} =500uS, 230Vac full load, cold start);		
		60A (50% I _{peak,} t _{width} =200uS, 230Vac, full load, cold start)		
	1-10V Dimming	N/A		
Dim	Synchronous Control	N/A		
Interface	High Low-level	N/A		
	PWM Control	N/A		
	Operating Frequency	5.8 GHz ±75 MHz , ISM Band.		
	Transmitting power	0.5mW Max.		
	Hold time	5s//30s/90s/5min/20min/30min		
Sensor	Stand-by DIM Level	N/A		
Parameters	Stand-by Period	N/A		
	Detection Sensitivity	100%/75%/50%/25%		
	Daylight Sensor	2Lux/10Lux/30Lux/50Lux/Disable		
	Daylight on/off	N/A		
	Detecting Radius	4-6m (mounting height 3m), see note 2		

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ON/OFF Sensor for Tri-proof Light

MC076S

Version: A2

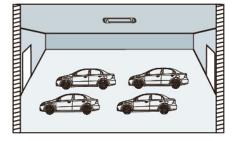
Mounting Height	4m Max.			
Detecting Angle	150° (Wall mounted), 360° (Ceiling mounted)			
Operating Temperature	-25℃…+60℃			
Storage Temperature	-40℃…+80℃(Humidity: 10%-95% Non-condensing)			
Safety standards	EN61058-1			
EMC standards	EN300440; EN301489-1; EN55015; EN61547; EN61000-3-2; EN61000-3-3; EN62479			
Environmental Requirem ent	Compliant to RoHS			
Certificate	CE, RED,SAA			
Wiring	Press-in Type Terminals, wire diameter : 0.75-1.5mm ²			
IP Rating	IP20			
Protection Class	Class II			
Installation	Built-in			
Dimension	169*26*20mm			
Package	Bubble bag+Clapboard + Carton(K=A)			
Net Weight	58±2g			
	5 years warranty @Ta 230V full load			
	Detecting Angle Operating Temperature Storage Temperature Safety standards EMC standards Environmental Requirem ent Certificate Wiring IP Rating Protection Class Installation Dimension Package			

1. "N/A"means not available.

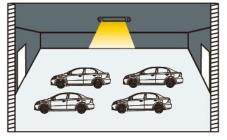
2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.3m/s.

3.Function

On/OFF Function



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.

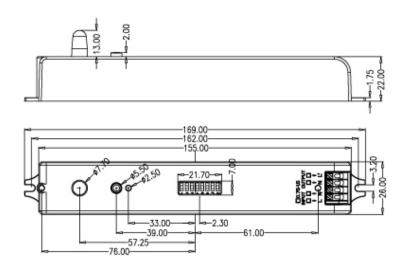


³ After elapse of hold time, the sensor switches off the light when no motion is detected.

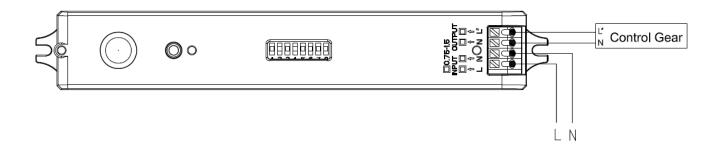
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4. Dimension (mm)

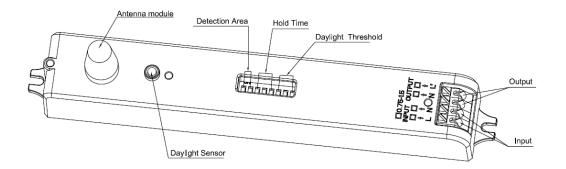


5. Wiring



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

6. Structure

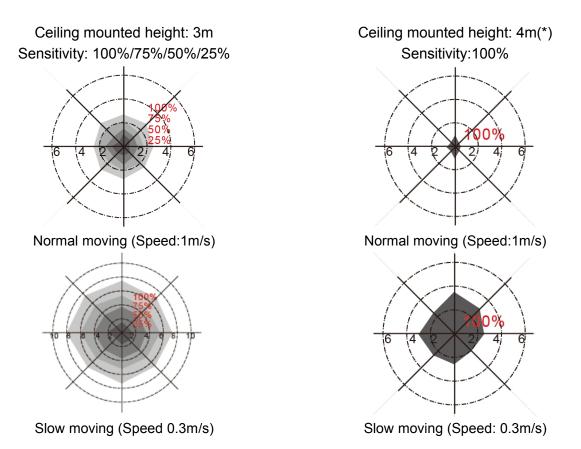


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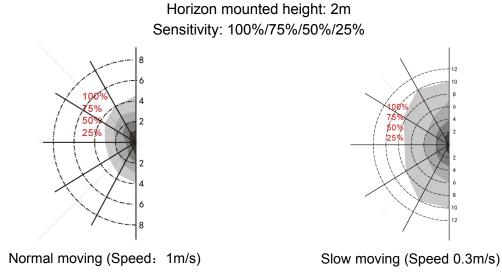
7. Radiation Pattern

1) Ceiling mounting



*Only 100% detection sensitivity is workable when installed at 4m mounting height. 25%/50%/75% sensitivity is not able to detect motion signal.

2) Wall mounting



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8. DIP Switch Setting

Detection A	Area ((Sensitivit	y)
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	1	2
100%	ON	ON
75%	-	ON
50%	ON	-
25%	-	-

Hold Time

	3	4	5	
Ι	ON	ON	ON	5S
II	-	ON	ON	30S
III	ON	-	ON	90S
IV	-	-	ON	5min
V	ON	ON	-	20min
VI	-	-	-	30min

Daylight Threshold

	6	7	8	
Ι	ON	ON	ON	2Lux
II	ON	ON	-	10Lux
- 111	-	ON	-	30Lux
IV	ON	_	-	50Lux
V	-	-	-	Disable*

*Disable" means the daylight sensor not work. it will turn on light once motion is detected regardless of ambient light .

9. Override Function

Power off, quick switch ON/OFF sensor 3 times (ON-OFF-ON-OFF-ON) within 2sec to override sensor function.

Lights will blink 3 times and then switch ON all the time. Power off and on again to recover sensor function.

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10. Initialization

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.

11. Factory Setting

Detection area: 100%, Hold Time: 5S, 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 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.

4) The parameters of the sensor may need to be reconfigured 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 distance between any inductive sensors should be greater than 3m.

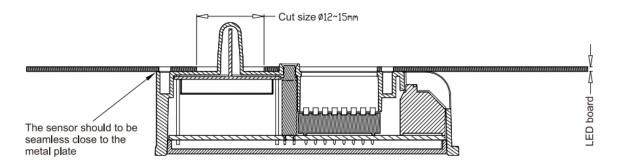
7) Do not place the sensor close to high-density objects such as metal, glass,concrete walls, etc, false triggering could happen. When the sensor is installed in a metal lamp, metal reflective surface, or a narrow enclosed environment, the microwave will be reflected repeatedly and cause false triggering. Please reduce the sensitivity or contact the manufacturer for technical support.

8) 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.

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

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

11) If the sensor is built under metal board, recommend cut-hole 12-15mm, and make sure the sensor surface should to be seamless close to the metal plate without space .



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