



SPECIFICATION

Product Name:	Sensor	
Model No.:	MC602S RC	
Issue Date:	Sept 15, 2022	
CUSTOMER APPROVED		

PRODUCT DIRECTOR APPROVED	SALES CHECKED	R&D CHECKED	PREPARED
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INTELLIGENT LIGHTING CONTRO



- High installation, can support 12m
- Override is available
- Patented high-gain antenna, supporting high-inductance low-inductance mode (low-inductance) Mode suitable for metal ceiling, metal reflector environment
- Compatible with dialing code and remote control design, parameters can be set simply
- 5 years warranty

2. Parameter

Operating Voltage		108-305V AC 50/60Hz		
Input	Rated Voltage	120/277V AC 50/60Hz		
lliput	Stand-by Power	<1W		
	Surge Test	LN: 1kV		
	Working Mode	ON/OFF function,		
	Type of Load	Inductive or resistive Load		
Output	Load Capacity	120VAC 1.6A 277VAC 1.6A		
	Max. Surge Capacity	30A (50%Ipeak,twidth =500uS, 230Vac full load, cold start); 60A (50% Ipeak,twidth=200uS, 230Vac, full load, cold start)		
	Operating Frequency	5.8 GHz ±75 MHz, ISM Band.		
	Transmitting power	0.5mW Max.		
	Hold time	5S/30S/90S/3min/20min/30min 5s/30s/1min/3min/5min/10min/20min/30min(Remote Control)		
Sensor	Detection Area	100%/75%/50%/25%		
Parameters	Daylight Sensor	5lux/15lux/30lux/50lux/100lux/Disable 5lux/15lux/30lux/50lux/100lux/150lux/Disable(Remote Control)		
	Detecting Radius	5-7m in radius (installed at 9 m high)		
	Mounting Height	12m Max		
	Detecting Angle	150°		
Operating Temperature -35℃+70℃Humidity:8		-35℃+70℃Humidity:85% (non-condensing)		
Operating Environment	Storage Temperature	Temperature: -35°C+80°C		
Certificate	Safety standards	EN61058-1,EN61058-1-2		
Standards	EMC standards	EN55015,EN61547,EN61000-3-2,EN61000-3-3		



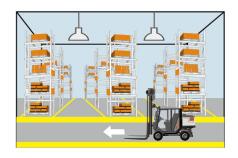
Certificate Environmental Requirement		Compliant to RoHS	
Standards	Certificate	CE,	
	Input/output terminal specifications	Push-type terminal block; wire diameter: 0.75-1.5mm2	
	IP Rating	IP20	
	Protection Class	Class II	
Others	Installation	Built-in installation	
	Dimension	98*43*25mm	
	Package	White bag + partition + outer box (K=A)	
	Net Weight	53g	
	Lifetime	5 years warranty @Ta 230V full load	

Note

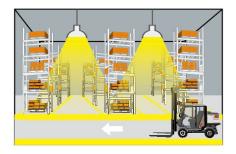
- 1. "N/A" means not available.
- 2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

3. Function

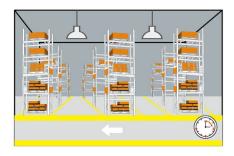
1) On/OFF Function (stand-by period be set to "0"s)



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



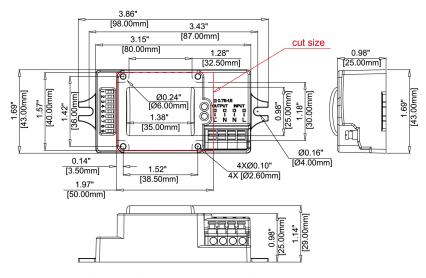
With insufficient ambient light, the sensor switches on the light when motion is detected.



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

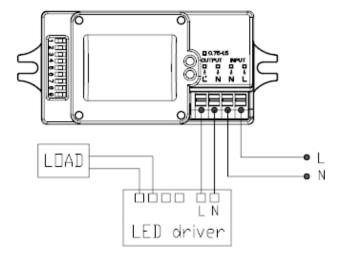


4. Dimension (mm)



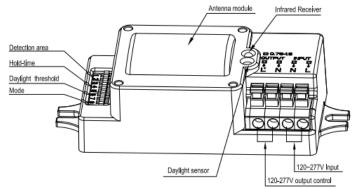
*To aviod blocking microwave transmitting, please cut hole as image above to make sure microave antenna exposed froom any metal.

5. Wiring



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

6. Function Diagram



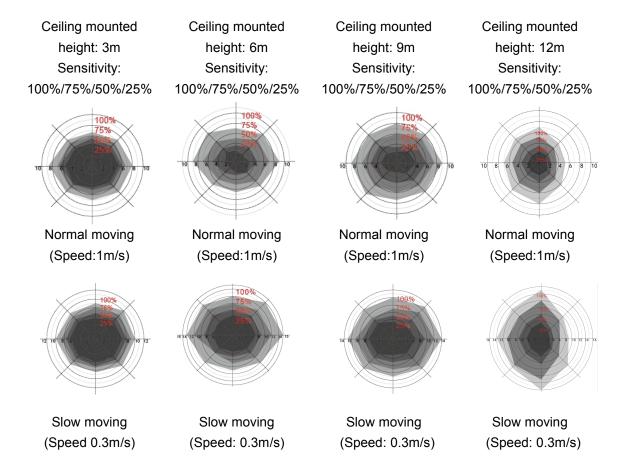
Shenzhen Merrytek Technology Co.,Ltd

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



Ceiling mounting

merr



^{*}Only 100%/75%/50% detection sensitivity is workable when installed at 10m & 15m mounting height. 25% sensitivity is not able to detect motion signal.

Horizon mounted height: 2m

Wall mounting

Sensitivity: 100%/75%/50%/25%

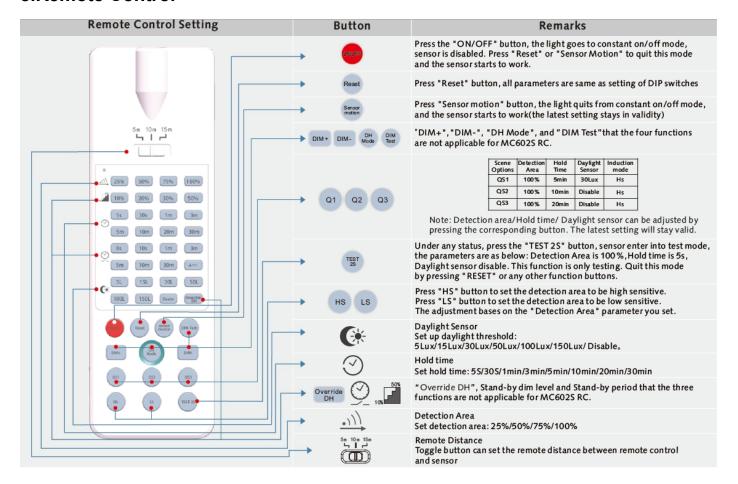
Normal moving(Sped: 1m/s)

Shenzhen Merrytek Technology Co.,Ltd

Slow moving (Speed 0.3m/s)



8.Remote Control



9. DIP Setting

1) Detection Area

	1	2	
I	ON	ON	100%
II	-	ON	75%
III	ON	-	50%
IV	-	-	25%



2) Hold Time

	3	4	5	
I	ON	ON	ON	5S
II	_	ON	ON	30S
III	ON	-	ON	90S
IV	-	-	ON	3min
V	ON	ON	-	20min
VI	1	-	-	30min

3) Daylight Sensor

	6	7	8	
I	ON	ON	ON	5Lux
II	-	ON	ON	15Lux
III	ON	-	ON	30Lux
IV	-	-	ON	50Lux
V	ON	ON	-	100Lux
VI	-	-	-	Disable

4) Mode

	1	
I	ON	HS
II	-	LS

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, Mode: HS

LIGHTING CONTROL Sensor MC602S RC Version: A2

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