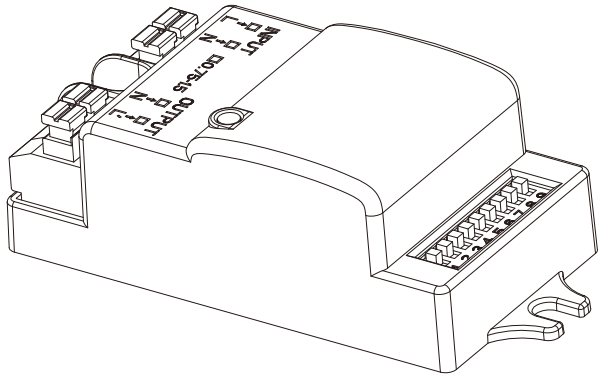
MC030S L

MICROWAVE MOTION SENSOR USER'S MANUAL

Model No.:MC030S L



EN

Instruction

MI210914A1

GENERAL GUIDELINES FOR INSTALLATION

1, The sensor should be installed by a qualified electrician. And ensure that the electricity supply is switched off before installing or servicing the product.

2,The sensor should not be modified in any way. Any modifications made for this product will immediately invalidate any warranties issued.

3, The company does not accept responsibility for any consequences resulting from unauthorized modification of the product.

4, The sensor should be connected to a stable power supply of 220-240Vac , 50/60Hz.

5, Microwaves cannot pass through metal or brick walls if thicker than 20cm. They will pass through thinner walls but there will be some attenuation.

6, Installation inside a glass or plastic housing will result in a reduction of detection sensitivity. Expect a reduction of approximately 20% for every 3mm of thickness.

⚠ NOTE

1.Please cut off power before installation ,wiring, setting or any other operation.

2.The data on detection pattern is typical value tested without any lighting fixture in Merrytek factory, the detection range could be affected by moving speed, installation height, motion object and different environment.

INITIALIZATION

- After power on, the sensor automatically turns on light at 100% brightness. During the initialization, the sensor is not able to detect movement.

APPLICATION NOTICE

1, Be sure to power off before adjusting DIP switch switch setting.

2, The microwave cannot pass through the metal, so the sensor cannot be installed in closed or semi-closed metal lamps and lanterns. Make sure there are no mental or glass above the sensor.

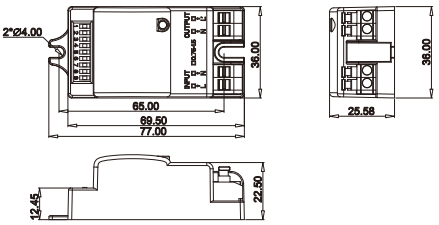
FEATURES

- Compact size design, can be built-in most of light fixtures.
- Sensor parameters can be easily adjustable by DIP switches.
- Terminal design for both in and off connection, easy to be connected.

SPECIFICATIONS

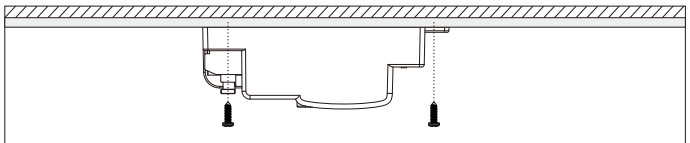
Operating voltage	220-240Vac, 50/60Hz
Rated capacitive load	400W(Inductive) 800W(Resistive)
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	1mW Max.
Stand-by Power	≤0.5W
Hold time	5S/30S/90S/3min/20min/30min
Detection area	10%/25%/50%/75%/100%
Daylight sensor	2lux/10lux/25lux/50lux/Disable
Mounting height	6m Max
Motion detection	0.5~3m/s
Detection angle	150°
Operating temperature	-20°C~60°C
IP rating	IP20 (INDOOR USE ONLY)
Surge current of load	30A (50% I_{peak}, t_{width} =500uS, 230Vac full load, cold start); 60A (50% I_{peak}, t_{width} =200uS, 230Vac, full load, cold start)

DIMENSION



(mm)

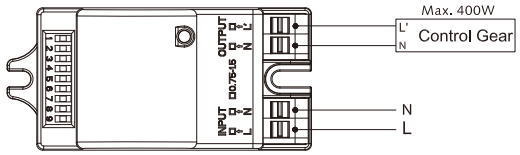
INSTALLATION



Install the sensor on the LED plate by using 2 screws

M4.0x8mm Screw	2X

WIRING



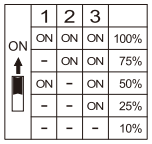
The sensor is designed for connect one load only.
Connect more than one loads may damage the sensor.

SETTINGS

Detection area, hold time and daylight sensor can be set by using DIP switches on the sensor. Note that reducing the detection area will also reduce the sensitivity.

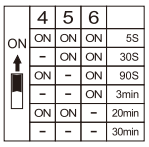
Detection area

I: up to 100%
II: up to 75%
III: up to 50%
IV: up to 25%
V: up to 10%



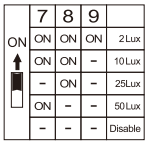
Hold Time

I: 5s
II: 30s
III: 90s
IV: 3min
V: 20min
VI:30min



Daylight Sensor

I: 2Lux
II: 10Lux
III: 25Lux
IV: 50Lux
V: Disable*

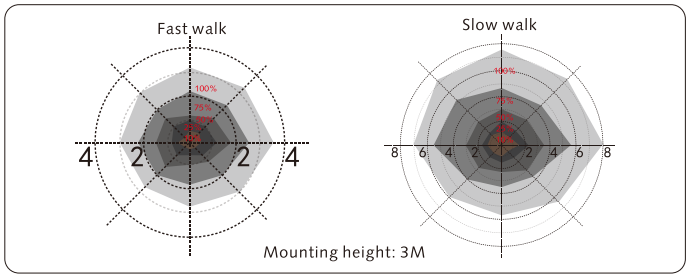


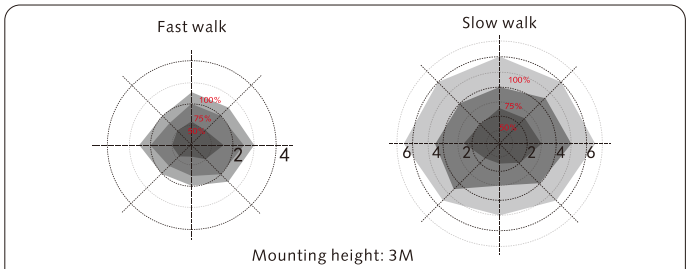
*Disable means the daylight sensor does not work. The sensor will turn on light once motion is detected regardless of ambient light level.

FACTORY SETTING

Detection area: 100%, Hold Time: 5S, Daylight Sensor: Disable

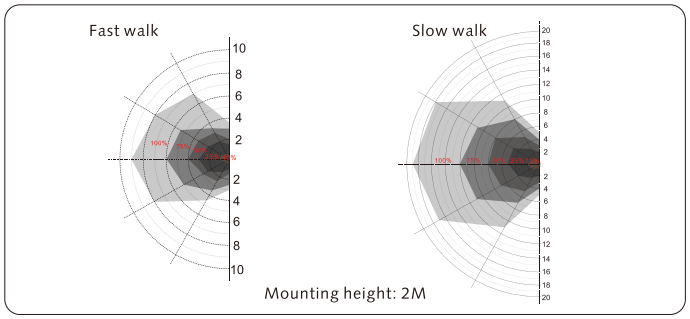
RADIATION PATTERN (CEILING MOUNTING)





(Note:50%,75%,100% detection sensitivity is workable when installed at 6m mounting height. Only 10%,25% sensitivity is not able to detect motion signal.)

Wall mounting



FAQ

QUESTION	Cause	REMEDY
The load will not illuminate	Incorrect daylight sensor setting selected.	Adjust setting.
	Load has failed.	Replace load.
	Power is switched off.	Switch on.
The load is permanently illuminated.	Continuous movement in the detection area.	Check detection area setting.
	The lamp (containing sensor) is installed in an area too close to reflective surfaces, i.e. metal, glass or concrete walls.	1, Make sure installation area suitable with at least 30cm space between lamp and surrounding reflective surfaces. 2, Reduce sensitivity (detection area).
The load will not illuminate despite movement.	Speed of moving object is not in the range of 0.5-3m/s or the detection radius is too small.	Check detection area setting.

Shenzhen Merrytek Technology Co.,Ltd
Address: Rm 101-1101, 17th Building, Dianda Guyuan Industrial Park, Mashantou Community, Matian Street, Guangming District, Shenzhen, China, 518106
www.merrytek.com ● Email:sales@merrytek.com

File NO	KF-BZD-1905-055

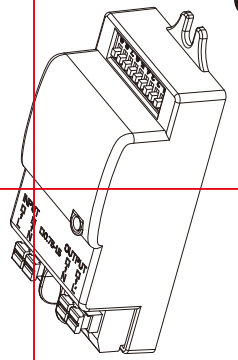
折页方式,此面朝外即可

MC030S L

merrytek

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Model No.:MC030S L



EN Instruction

M12020120S

CE μ RED

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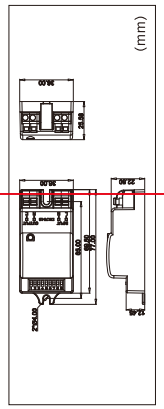
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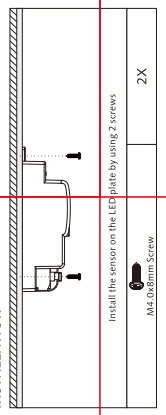
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INSTALLATION

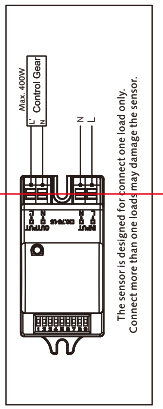


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Detection angle	150°
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IP rating	IP20 (INDOOR USE ONLY)
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材质要求： 70G书写纸 297*210MM 黑白双面印刷

±0.5°			没有指定角度可接受										
±0.4	±0.3	±0.2	±0.1	没有指定公差									
600>L>300	300>L>100	100>L>20	20>L	线性长度									

3				产品名称	开关型控制器		物料名称	说明书		视角			
2				产品型号	MC030S L		物料编码	1050050235		版本	A1	单位	mm
1	增加辐射精度提示 断电操作说明,修改地址	陈阳	20210914	设计	黄路宏	20210203	材料		数量	1	页次	1	比例	1:1
序号	变更内容	变更人	日期	审核			深圳迈睿智能科技有限公司 ShenZhenMerrytekTechnologyCO.,LTD						
路径	2-辅助设计\1-包装类\3-控制器产品三部\MC030SL			批准									

表格编号：MRT-KF-003 R:A/0