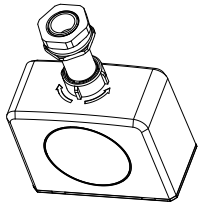


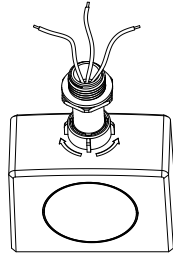


MICROWAVE MOTION SENSOR USER'S MANUAL

Model No.:MC085S



MC085S A pin type



MC085S B type



EN
Instruction
MH190402A0

FEATURES

- Two connector can be selected: needle connector or rotary connector, easy for installation.
- Detection area, hold time and daylight sensor can be set by DIP switch.
- Two modes optional: Photocell function and Motion function.
- Quick switch Motion 3 times to override sensor function. Lights will switch on all the time

SPECIFICATIONS

Operating voltage	220-240V AC, 50Hz/60Hz
Rated Load	400W(Inductive) ; 800W(Resistive)
HF system	5.8 GHz \pm 75 MHz, ISM Band
Transmitting power	0.5mW Max.
Max. Surge Capacity	10A: 30A (50% Ipeak, twidth =500uS, 230Vac full load, cold start); 60A (50% Ipeak, twidth =200uS, 230Vac, full load, cold start) 17A: 50A (50% Ipeak, twidth =500uS, 230Vac full load, cold start); 80A (50% Ipeak, twidth =200uS, 230Vac, full load, cold start)
Detection Area(Radius)	4-6m (mounting height 3m)
Mounting height	6m Max.
Detecting Angle	150° (Wall mounted), 360° (Ceiling mounted)
Hold time	5S/30S/90/3min/20min/30min
Stand-by DIM Level	100%/75%/50%/25%
Daylight sensor	2Lux/10Lux/25Lux/50Lux/100Lux/Disable
Daylight on/off	10Lux/50Lux ; 25Lux/75Lux; 50Lux/100Lux; 100Lux/200Lux; 150Lux/300Lux; Disable
Operating temperature	-25°C~60°C

Application Notice

- 1, Sensors settings may need to be adjusted to match installation site, please follow below instructions or contact manufacturer.
- 2, Photocell function must be operated with daylight condition.
- 3, The distance between any two sensors should be at least 3m to avoid interference with each other.
- 4, When the microwave sensor is installed in a metal lighting fixture or space with large reflector, for example a warehouse with metal roof, the microwave will be reflected and cause the lights permanently illuminated even if without motion signal. Please reduce the detection area (sensitivity) to solve the problems, or contact the microwave sensor manufacturer to provide technical support.
- 5, Make sure the sensor not close to or be blocked by high density material, such as metal, glass, concrete walls etc. The materials will reduce or block microwave and cause false trigger.
- 6, The anti-interference capacity is only for breeze and raindrop ,can not anti for big raining ,wind or trees moving.
- 7, When you want to switch between the photocell function and the Motion function , you need to turn OFF the power to change the mode.

Override Function

- Quick switch ON/OFF 3 times within 2sec to override sensor function. Lights will switch on all the time. Power off and on again to recover sensor function.

Initialization/General guidelines

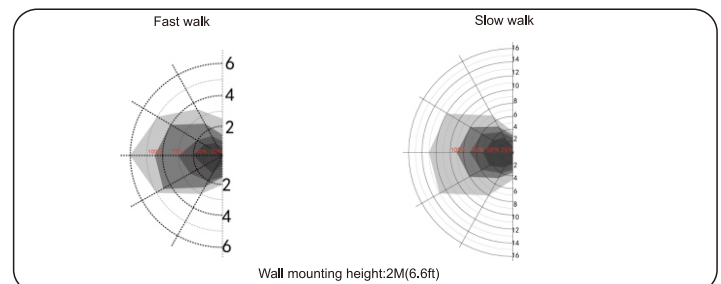
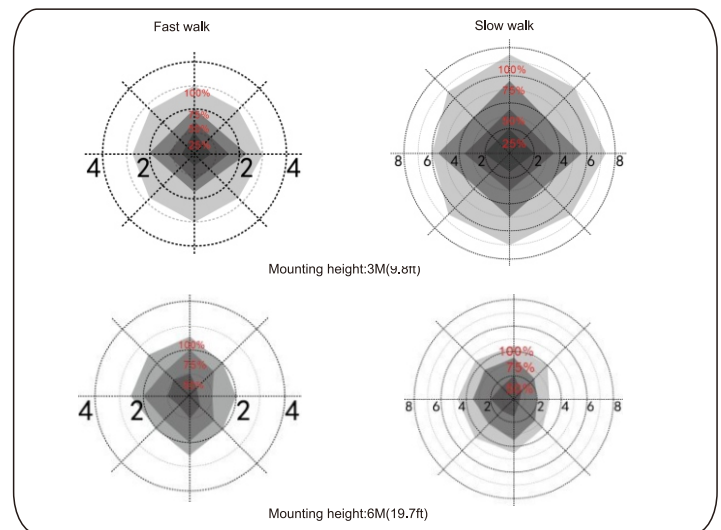
On/Off function :

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

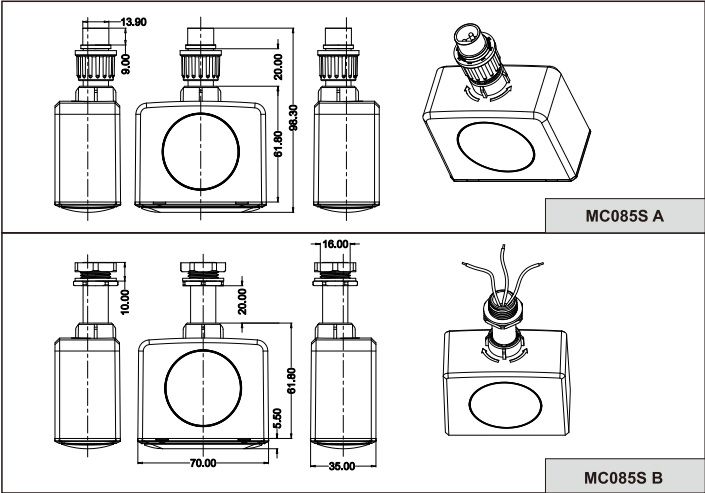
Factory Setting

Detection Area: 100%, Hold Time: 5S, Daylight Sensor: Disable,
Mode Settings: Motion

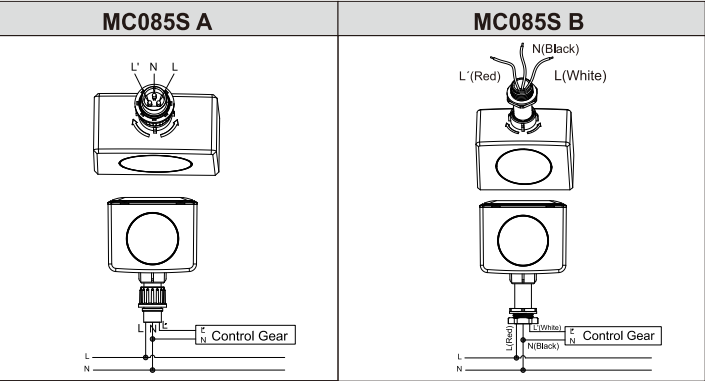
DETECTION PATTERN



Dimension(mm)

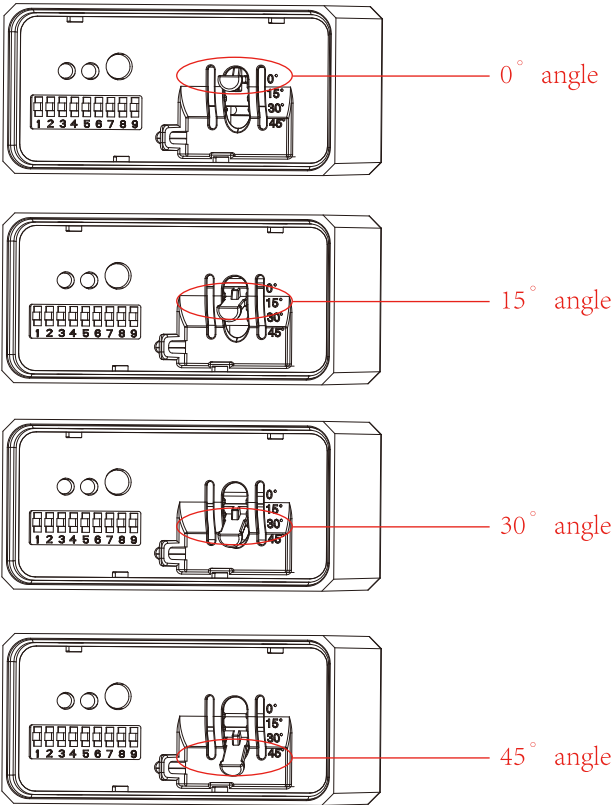


WIRING SCHEME



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

ANTENNA ADJUSTING



SETTINGS

Detection area

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

ON	1	2	
↑	ON	ON	100%
↓	ON	-	75%
↓	ON	-	50%
↓	-	-	25%

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion is detected.

- I: 5s
- II: 30s
- III: 1min
- IV: 3min
- V: 20min
- VI: 30min

ON	3	4	5	
↑	ON	ON	ON	5S
↓	ON	ON	-	30S
↓	ON	-	ON	1min
↓	-	-	ON	3min
↓	ON	ON	-	20min
↓	-	-	-	30min

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. The settings are as follows:

Daylight Threshold(Photocell Open/Close)

- I: 2lux(10/50lux)
- II: 10lux(25/75lux)
- III: 25lux(50/100lux)
- IV: 50lux(100/200lux)
- V: 100lux(150/300lux)
- VI: Disable

ON	6	7	8	Daylight Threshold	Photocell Open/Close
↑	ON	ON	ON	2Lux	10/50Lux
↓	ON	ON	-	10Lux	25/75Lux
↓	ON	-	ON	25Lux	50/100Lux
↓	-	-	ON	50Lux	100/200Lux
↓	ON	ON	-	100Lux	150/300Lux
↓	-	-	-	Disable	Disable

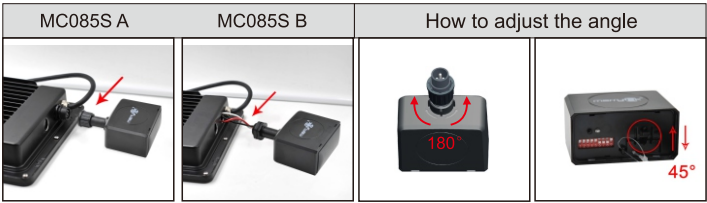
*When set to Disable, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light levels.

Mode

- I: Motion
- II: Photocell

ON	9	
↑	ON	Motion
↓	-	Photocell

INSTALLATION



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.