



MICROWAVE MOTION SENSOR USER’S
MANUAL Model No.: MC070S



FEATURES

- Automatic switching based on motion and light level. Zero-crossing point operation helps protect the sensor against in-rush current.
- Super Compact size makes it suitable to fix within most luminaires.
- 4-pole press-in terminal (L, N, N, L'), easy assembly. Detection area, time delay and daylight threshold can be precisely set via DIP switch.V

SPECIFICATIONS ...

Operating Voltage	220-240VAC 50/60Hz
Voltage Range	198-264VAC
Stand-by Power	≤0.5W
Load Type	≤400W (Inductive) ≤800W (Resistive)
Hold Time	5s/1min/3min/10min (or 5s/1min/5min/15min)
Sensing Range	50%/100%
Daylight Sensor	25lux/disable
Mounting Height	Ceiling Mounting:3-6m
Detection Area	4-7m (Mounting Height: 3m)
Operating Frequency	5.8 GHz ±75 MHz
Operating Temperature	-20℃~+60℃
IP Rating	IP20 (Built-in)

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

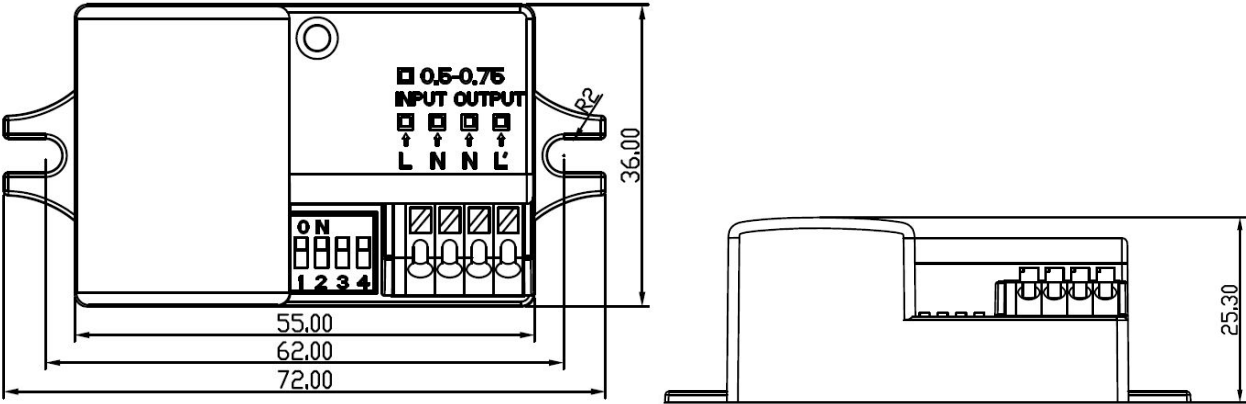
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

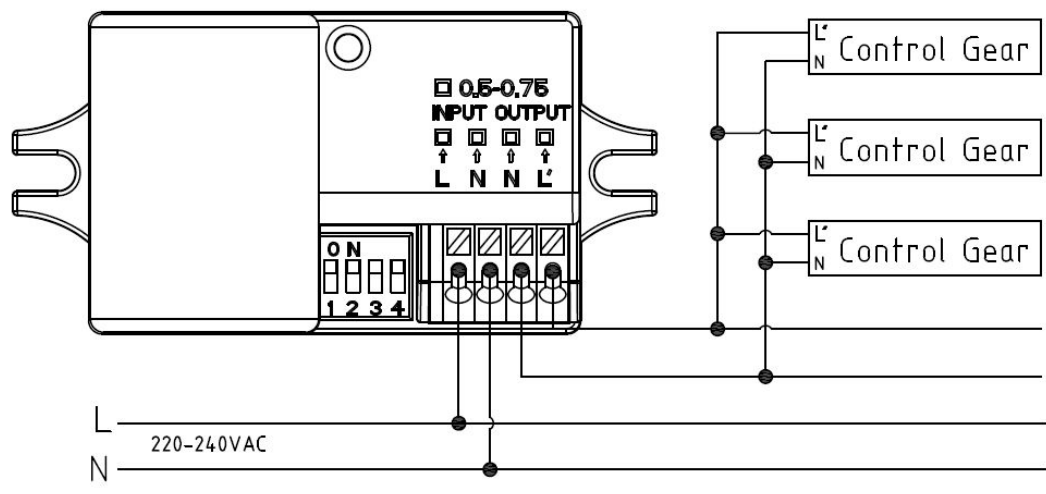
GENERAL GUIDELINES FOR INSTALLATION

- The sensor should be installed by a qualified electrician. And ensure that the electricity supply is switched off before installing or servicing the product.
- The sensor should not be modified in any way. Any modifications made for this product will immediately invalidate any warranties issued.
- The company does not accept responsibility for any consequences resulting from unauthorized modification of the product.
- The sensor should be connected to a stable power supply of 220-240Vac 50Hz/60Hz.
- Microwaves cannot pass through metal or brick walls if thicker than 20cm. They will pass through thinner walls but there will be some attenuation.
- 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.

Dimension (Unit: mm)



Wiring Diagram



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.

1, Detection area		1
I: up to 100%	100%	ON
II: up to 50%	50%	-

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

I: 5s	2	3
II: 1min	ON	ON
III: 3min	ON	-
IV: 10min	-	ON
	-	-

When set to 30min, The sensor function will be inactive, the light will go back to normal one.

3,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:

I: 25lux, darkness operation only

	4
25Lux	ON
Disable	-

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.