

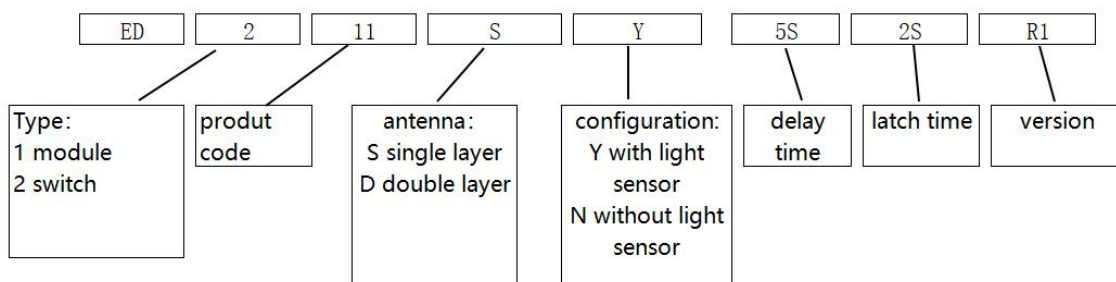
## Brief Introduction

ED211SY, The microwave motion sensor is designed based on the Doppler principle, it transmits the high frequency electromagnetic wave through the antenna and receives the reflected wave. Based on this principle it judges the movement of the object within the coverage range, and feedback corresponding electricity signal. It is widely used in motion sensor lighting, security, small household electrical appliances, smart home, automatic door control switch, greeting device and other products, as well as garage, corridor, courtyard, balcony, bathroom and other places that need automatic motion sensor control.

## Feature & Advantage

- Compared with PIR module, microwave motion switch is better (with more wide detection range, no dead area, no lens, no lens aging problem, no environment interference)
- Strong anti-interference ability -- It is not affected by temperature, humidity, airflow, dust, noise, brightness and other factors
- Microwave can penetrate Acrylic, glass or thin non-metal materials
- Complying with environmental requirements

## Naming Rules



### Specification

	Min.	Typ.	Max.	Unit	
Input Voltage	100		277	Vac	
Load Power			400	W	@100V-277Vac
RF Frequency		5.8		GHz	
Standby Power		0.5		W	
3db Beam Angle		93		°	XZ Plane
		99		°	YZ Plane
		4		dB	
Distance	5	6	7	M	Note 1
Delay time		5		S	
Light sensor		25		Lux	Note 2
T oper	-25		85	° C	
T stg	-50		125	° C	

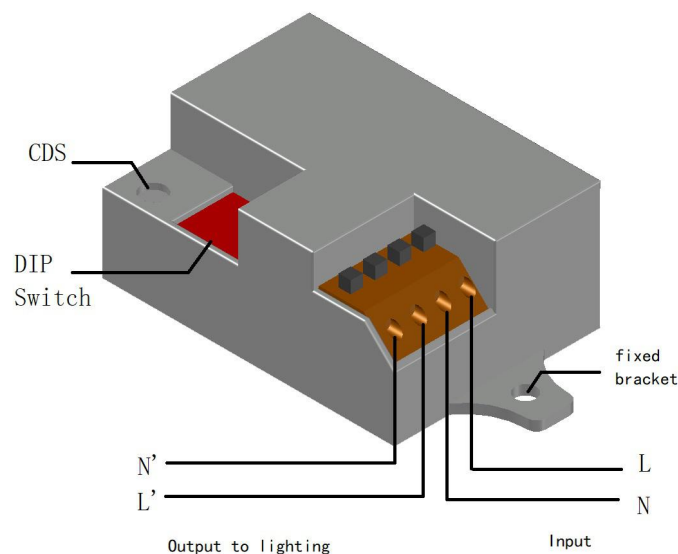
**Note 1:** The test condition is to hang up 3M, and distance means the radius of the range.

**Note 2:** Because of the spectral characteristics of photosensitive devices, the threshold is uniformly tested under natural light conditions

### Installation

A variety of installation options are available:

1. Install the fixed bracket with card slot or layering
2. Install the fixed bracket screws or rivets



### DIP Switch Setup

#### Code 1: Distance Set

	1
100%	NO
50%	—

According to different application occasions, the sensing area can be adjusted by setting the code switch to set 100% or 50%.

#### Code 2 & 3: Delay time Set

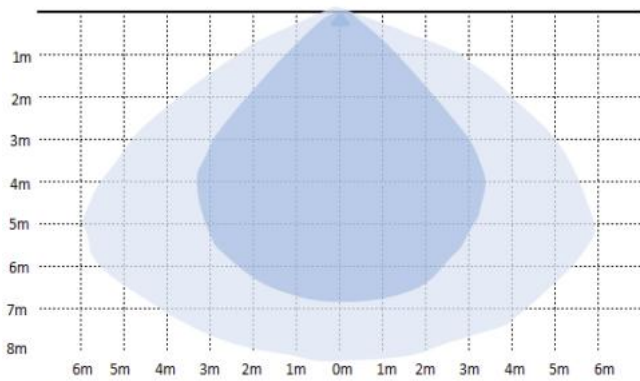
	2	3
5S	ON	ON
1min	ON	—
3min	—	ON
5min	—	—

Delay time means the light on time after the moving object moves away from the sensing area. The stalls can be set as 5S, 1min, 3min and 5min

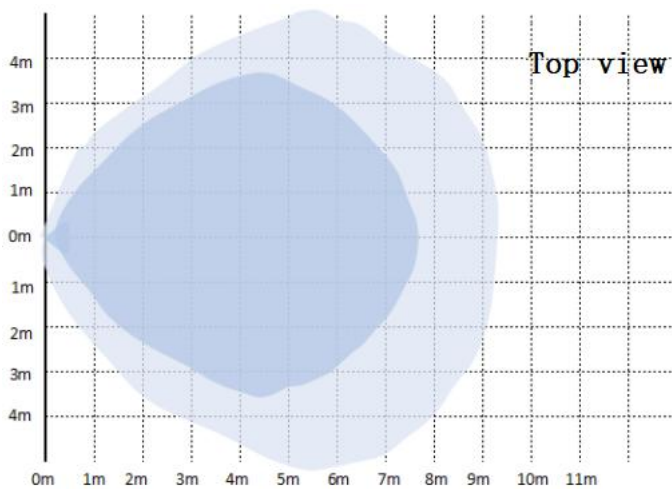
#### Code 4: Ambient Light sensor

	4
25LUX	NO
Disable	—

When the ambient illuminance is lower than the setting valve, there is an object moving in the sensing area. The stalls can be set to work under 25LUX or whole day.



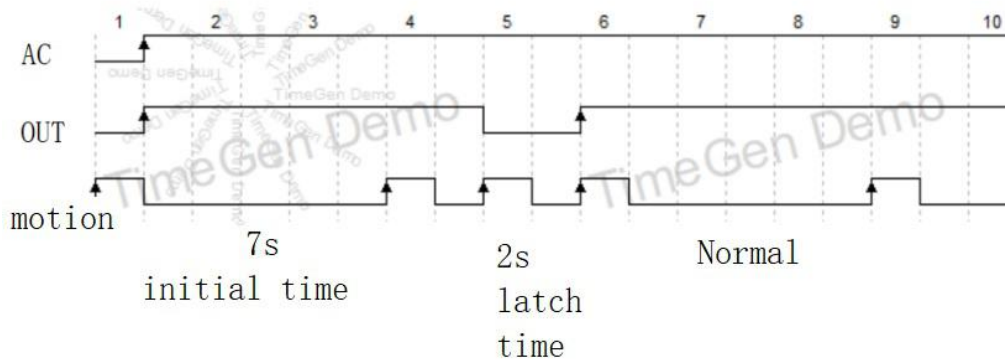
Hang up ■ high sensitivity ■ low sensitivity



Wall mounting ■ High sensitivity ■ Low sensitivity

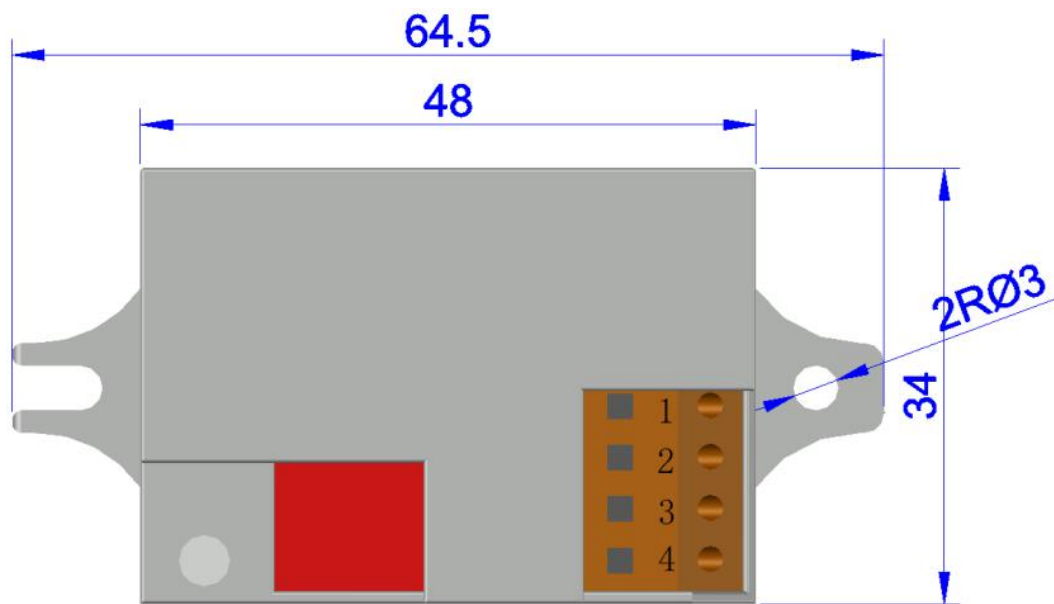
Sensing area

## Sequence Chart:



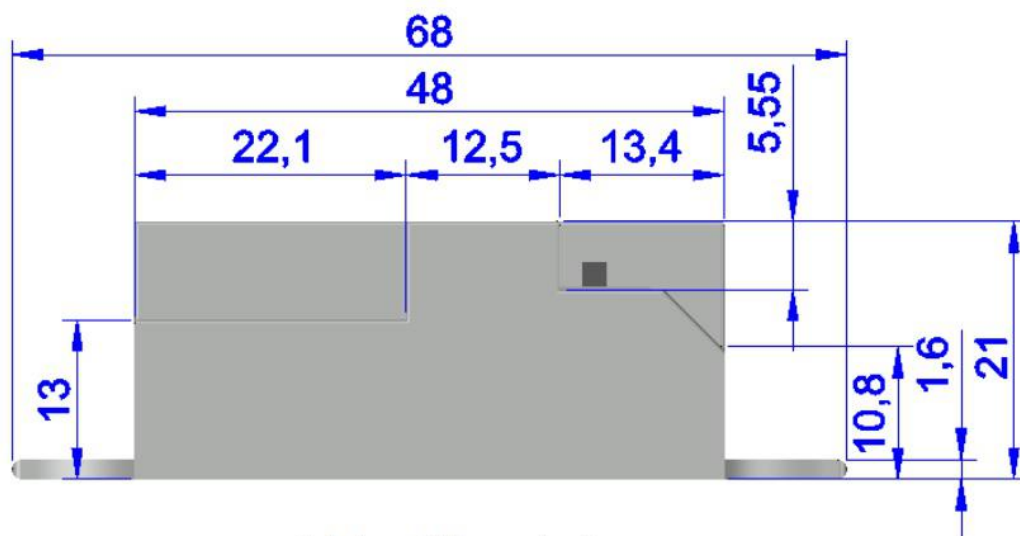
After power on, the switch initialization time, output keep 7 seconds, and then automatically shut down. After 2 seconds of latch time, the switch enters the normal state (delay time according to the DIP switch code setting)

**Dimension & Pin Assignment**



TOP View (mm)

Code	Describe
1	L Input
2	N Input
3	L' Output
4	N' Output



Side View (mm)

### Notes

- Avoid installing metal accessories or shell, metal will absorb microwave and affect the effect.
- The antenna surface should avoid large current circuit coverage, which may cause interference.
- Photosensitive position should avoid opaque object occlusion.
- Sensor recommended installation spacing greater than 1.5m.

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**Information Update Without Further Notice**

#### FCC Warning

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

#### Radiation Exposure Statement

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 and your body.