

Hands Free Switching

Sensing Innovations beyond Imaginations



Microwave Sensor

Infrared Motion Sensor

Sensor Alarm

Sensor Socket

**sensinova**<sup>TM</sup>  
motion on

## ABOUT

# sensinova™

"Sensinova – Sensing innovations beyond imagination" is a well-known and trust worthy brand based in India that has been involved in designing of sensors used in residential, commercial and industrial applications. The concept of our company is "Be smart, Live Better", which mainly focuses on research and development of contemporary household automation products...

Sensinova has obtained its name as one of the famous and trustworthy brand in sensing innovation products across India. The company and its professionals have obtained expertise in designing of sensors available in wide varieties. In this way, whether you have the requirement of any Microwave sensors or PIR sensors, you will be able to get right solutions by approaching our experts.

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## APPLICATION

CONFERENCE ROOMS  
MEETING HALLS  
BASEMENTS  
CORRIDORS  
OFFICES  
CORRIDOR  
PARKING AREA  
HOSPITALS  
MULTI-APARTMENT COMPLEXES  
STAIRWAYS  
COLLEGES  
SCHOOLS  
INSTITUTES

# Microwave Sensor



## SN-MW701D

### HF MICROWAVE SENSOR

Detection Range : 360°  
Power Source : 220-240V/AC  
HF System : 5.8GHz CW radar,ISM band  
Rated Load : Max.1200W  
Detection Distance : 1-8m (radius),adjustable  
Time Delay : 10sec±3sec to 12min±1min(adjustable)  
Ambient Light : <3-2000LUX (adjustable)

## SN-MW700

### HF MICROWAVE SENSOR - CEILING MOUNT

Detection Range	: 360°
Power Source	: 110-130V/AC 220-240V/AC
HF System	: 5.8GHz CW radar,ISM band
Rated Load	: Max. 800W (110-130V/AC), 1200W (220-240V/AC)
Detection Distance	: 1-8m (radius),adjustable
Time Delay	: 10sec±3sec to 12min±1min(adjustable)
Ambient Light	: <3-2000LUX (adjustable)



## SN-MW752

### HF MICROWAVE SENSOR - WALL MOUNT

Detection Range	: 180°
Power Source	: 110-130V/AC 220-240V/AC
HF System	: 5.8GHz CW radar,ISM band
Rated Load	: Max. 800W (110-130V/AC), 1200W (220-240V/AC)
Detection Distance	: 5-15m(adjustable)
Time Delay	: 10sec±3sec to 12min±1min(adjustable)
Ambient Light	: <3-2000LUX (adjustable) IP44



## SN-MW753

### 360° FLUSH MOUNT CEILING MOUNT OCCUPANCY DETECTOR

Detection Range	: 360°
Power Source	: 110-130V/AC 220-240V/AC
HF System	: 5.8GHz CW radar,ISM band
Rated Load	: Max. 800W (110-130V/AC), 1200W (220-240V/AC)
Detection Distance	: 1-8m (radius),adjustable
Time Delay	: 10sec±3sec to 12min±1min(adjustable)
Ambient Light	: <3-2000LUX (adjustable)



Ceiling Mount in POP.  
Offices, Conference rooms, Malls etc..

## SN-MW754

### HF MICROWAVE SENSOR - CEILING MOUNT

Detection Range	: 180°
Power Source	: 220-240V/AC
HF System	: 5.8GHz CW radar,ISM band
Rated Load	: Max.1200W
Detection Distance	: 5-15m,adjustable
Time Delay	: 10sec±3sec to 12min±1min(adjustable)
Ambient Light	: <3-2000LUX (adjustable)







## APPLICATION

- MEETING ROOMS
  - OFFICE CABINS
  - STAIRCASE & MAIN ENTRANCE
  - TOILETS / LOBBY
  - CORRIDOR & PANTRY
  - COVERED PARKING AREA
  - STAIRWAYS
  - ENTRANCE & CORRIDORS
  - WALK THROUGH PASSAGES
  - GARAGES
  - GARDEN AREA
  - MAIN ENTRANCE
  - TERRACE
  - PARKING LOTS & BALCONY
- CAN BE USED TO CONNECT ANY ELECTRIC EQUIPMENT, LIKE NIGHT LAMPS ETC..

# Infrared Motion Sensor



### SN-PR46B

#### CEILING MOUNT HIGH SENSITIVITY OCCUPANCY SENSOR

- Detection Rang : 360°
- Power Source : 110-130V/AC 220-240V/AC
- Rated Load : Max.1000W (110-130V/AC), 2000W (220-240V/AC)
- Detection Distance : Max.20m (<24°C)
- Time Delay : 10sec±3sec to 30min±2min(adjustable)
- Ambient Light : <3-2000LUX (adjustable)
- Installation Height : 2.2m-6m



### SN-PR07

#### 360° CEILING MOUNT STAND ALONE LIGHT CONTROL PIR SENSOR

- Detection Rang : 360°
- Power Source : 110-130V/AC 220-240V/AC
- Rated Load : Max. 800W (110-130V/AC), 1200W (220-240V/AC)
- Detection Distance : Max.6m (<24°C)
- Time Delay : 10sec±3sec to 7min±2min(adjustable)
- Ambient Light : <3-2000LUX (adjustable)

## SN-PR11

### PASSIVE INFRARED SENSWITCH

Detection Range : 180°  
Power Source : 110-130V/AC 220-240V/AC  
Rated Load : Max. 500W (110-130V/AC), 800W (220-240V/AC)  
Detection Distance : Max.15m (<24°C)  
Time Delay : 10sec±3sec to 15min±2min(adjustable)  
Ambient Light : <3-2000LUX (adjustable)  
IP44



## SN-PR05B

### 360° CEILING MOUNT STAND ALONE LIGHT CONTROL PIR SENSOR

Detection Range : 360°  
Power Source : 110-130V/AC 220-240V/AC  
Rated Load : Max.800W (110-130V/AC), 1200W (220-240V/AC)  
Detection Distance : Max.12m (<24°C)  
Time Delay : 10sec±3sec to 15min±2min(adjustable)  
Ambient Light : <3-2000LUX



## SN-PR15

### PIR MOTION SENSOR, WEATHERPROOF FOR OUTDOOR USE

Detection Range : 180°  
Power Source : 110-130V/AC 220-240V/AC  
Rated Load : Max. 800W (110-130V/AC), 1200W (220-240V/AC)  
Detection Distance : Max.15m (<24°C)  
Time Delay : 10sec ±3sec to 15min±2min(adjustable)  
Ambient Light : <3-2000LUX (adjustable)  
IP65



## SN-PR11A

### PASSIVE INFRARED PLUG

Detection Range : 120°  
Power Source : 220-240V/AC  
Rated Load : Max.1200W  
Detection Distance : 2-9m (<24°C)(adjustable)  
Time Delay : 10sec±3sec to 7min±2min(adjustable)  
Ambient Light : < 3-2000LUX (adjustable)





# Light - Control Sensor (Photocell)

APPLICATION : STREET LIGHTS, GARDEN LIGHTS, SOCIETY LIGHTS, ETC.



## SN-PC302

### TWILIGHT SENSOR

Power Source : 110-130V/AC 220-240V/AC  
Power Frequency : 50/60Hz  
Rated Current : 10A  
Ambient Light : <5-50LUX(adjustable)  
IP44



## SN-PC308

### TWILIGHT SENSOR (PHOTO CELL)

Power Source : 220-240V/AC  
Power Frequency : 50Hz  
Rated Current : 20A  
Ambient Light : <2-100LUX(adjustable)  
IP65

# Sensor Alarm

APPLICATION : SHOW ROOMS, OFFICES, RESIDENCE, DOCTORS CLINIC

## SN-PR96

### PIR SENSOR ALARM

Detection Range : 60°  
Power Source : 9V/DC  
Detection Distance : 8m (max.)  
Static Consumption : < 40uA  
Working Consumption : < 100mA  
Alarm Sound : ≥70DB  
Switch Function : Alarm/Off/Chime



# Microwave Sensor - Lamp

APPLICATION : LIVING ROOMS, BALACONY, STAIRCASE, CORRIDORS, LIFTS

## SN-LD77A

### MICROWAVE SENSOR LAMP

Detection Range : 360°  
Power Source : 220-240V/AC  
Rated Load : 16W(100PCS LED,1200LM)  
Additional switching capacity : 300W  
Detection Distance : 1-8m (radius) adjustable  
Time Delay : 10sec±3sec to 12min ±1min(adjustable)  
Ambient Light : <3-2000LUX (adjustable)  
IP54,IK10



## PIR MOTION SENSORS

### PRINCIPLE

All human body has stable temperature, generally 37°C. Therefore they can send out infrared rays with specific wavelength about 10 micrometers.

The PIR sensors are tuned to detect these IR wave length which only emanates when a human being arrives in their proximity. i.e. it senses the motion of human body by the change in surrounding ambient temperature.

The term "PYROELECTRICITY" means heat that generates electricity (here, an electric signal of small amplitude). Since these sensors do not have an infrared source of their own, they are also termed as "Passive".



## MICROWAVE MOTION SENSORS

### PRINCIPLE

Microwave is still the most advanced method used to detect motion objects. The high-tech sensor works on the principle of the "Doppler effect". If a movement in the detection zone changes the echo pattern, the sensor responds and switches light on.

Microwave is composed of frequency & amplitude. Once radio wave in the travel process encounters an object, it will be reflected, & frequency & amplitude of its reflected wave will change in accordance with the moving state of object. If the object is immobile, the frequency of the reflected wave will not change.

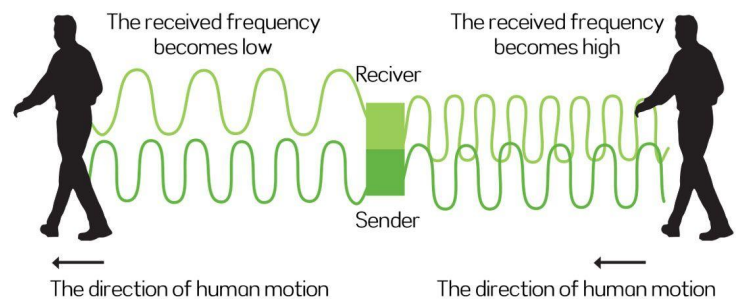
However, if the object moves towards the direction of radio wave, the reflected wave will be compressed, & therefore the frequency of the very wave will increase. Conversely, if the object moves to the opposite direction of a radio wave the frequency of the reflected wave will decrease.

Currently, license-free ISM band used for motion detection are as following:-

C-band: -5.8GHz ± 75MHz

X-band: -10.525GHz ± 25MHz

K-band: -24.125GHz ± 200MHz



## MICROWAVE MOTION SENSOR

### MICROWAVE MOTION SENSOR

Activated by motion & speed. Always functioning regardless of the background temp. Dust proof & smoke proof.

Motion can be detected through plastic, glass & thin non-metal materials.

Long life span, 50,000 hours.

# VS

## PASSIVE INFRARED SENSOR

### Passive Infrared motion sensor

Activated by infrared, heat & light.

Sensitivity is lower when background temp. reaches 37°C. Vulnerable to dust & smoke.

Cannot pass through plastic, glass cover.

Sensor-head must be mounted on the outside of luminaries.

Lens gets aging & short service time, 20,000 hours.