

Save Electricity and Make Your Building Green By Using Smart Light Sensors

PIR Motion Sensors & Switches

www.amiteksmarthomes.com

**PIR MOTION SENSORS / ENERGY SAVING SENSORS / MICROWAVE SENSORS**

**PIR Motion Sensor for Automatic Light Control**

PIR Motion Sensor is a fully automatic indoor and outdoor security / courtesy light controller capable of controlling up to 2000W incandescent or 30W x 20 fluorescent of lighting in day as well as at night. The built-in Passive Infrared (PIR) Motion Sensor turns on the connected lighting system when it detects motion in its coverage area. During the day, the built in Photocell Sensor saves electricity by deactivating the lights. You can reduce your electricity bills by using PIR Motion Sensors & Occupancy Sensors. An adjustable time knob lets you select how long the light stays on after activation & thus stops the wastage of electricity. In the evening or at night you can also manage at what time the lights should become ON by the LUX adjustment knob provided in the Sensor.

**MAJOR UNIQUE SELLING POINTS ARE AS FOLLOWS:**

1. SAVES ENERGY WHEN SPACE NOT IN USE AS LIGHTS TURNS OFF IF AREA IS VACANT.
2. GIVES SECURITY AGAINST INTRUDER AS LIGHTS TURNS ON IF A MOTION GETS DETECTED.
3. WORKS AS WELCOME LIGHT FOR VISITOR.
4. NO EXTRA WIRING REQUIRED IN MOST CASES.
5. BEST PART IS CLIENT CAN CONNECT LIGHTS N HIGH VOLTAGE EQUIPMENTS LIKE HVAC UPTO 2000 WATT WITH OUR PERTICULAR MODEL.
6. CHOOSE MODELS DEPENDING ON APPLICATION, LOAD N USAGE AREA.

**Energy Saving Sensor:**

By the use of PIR Sensor, considerable energy can be saved by switching off the lights when the space is not in use. Savings are huge in larger facilities.

It has been estimated that a single unit of energy saved at the end use point is equal to 2.3 units of energy produced.

If energy efficient methods are implemented properly about 25000 MW equivalent capacity of power can be saved through promotion of energy efficient measures.

**PIR Motion Sensor for Security of Houses**

If PIR Motion Sensor is installed in front yard or back yard of your house, it works as Security Sensor in nights. As if any body jumps or sneaks within its detection range, the connected lights / Sirens or beeps can be activated automatically to create Panic to the Intruder.

**Working Principle: -**

The PIR Sensor senses the motion of a human body by the change in surrounding ambient temperature when a human body passes across.

Then it turns on the lighting load to which it is connected.

The lighting load will remain ON until it senses motion.

Once the motion is seized it switches OFF the lighting load.

During the night, the LUX adjustment knob allows you to adjust the luminosity based on which the lighting load will either switch on / off automatically.

**Applications: -**

- Common toilets, for lights & exhaust fans
- Common staircase / Entrance / Basements
- Parking areas / Garden lights
- Living room, Malls, ATMS
- Changing rooms in shops
- Offices / Conference Room
- Corridors & many more!

**Advantages: -**

PIR Motion Sensors will itself recover its cost by reducing your electricity bills and will further save your electricity cost for the future.

Very easy installation and can be installed by in-house technician itself.

No separate wiring is required hence no additional installation cost.

No modification is required and complies with current aesthetics.

Pay back within ten months according to residential meter and six months according to commercial meter.

**APPROXIMATE SAVING WITH COST ESTIMATE :**

S. No.	For Commercial Meter	Without PIR Motion Sensor	With One PIR Motion Sensor
1	Power capacity of total connected light's load	2000 watts	2000 watts
2	Operational hours of connected light's load	12	6
3	Total consumption in watts per day	24000	12000
4	Number of days in a month	30	30
5	Total power used by connected light's load in KW	72000W=720 KW	36000W=360 KW
6	Cost of electricity per KW in Rupees	10	10
7	Amount paid per month @ Rupees 10 per unit	7200.00	3600.00
8	Saving per month on connected light's load in Rupees 0		3600.00

\*For higher wattage electrical appliances the saving will be much more accordingly .....



**APPLICATIONS OF VARIOUS SENSORS IN BUILDINGS**

To view complete range of sensors & other products, visit our following websites :  
www.amiteksmarthomes.com

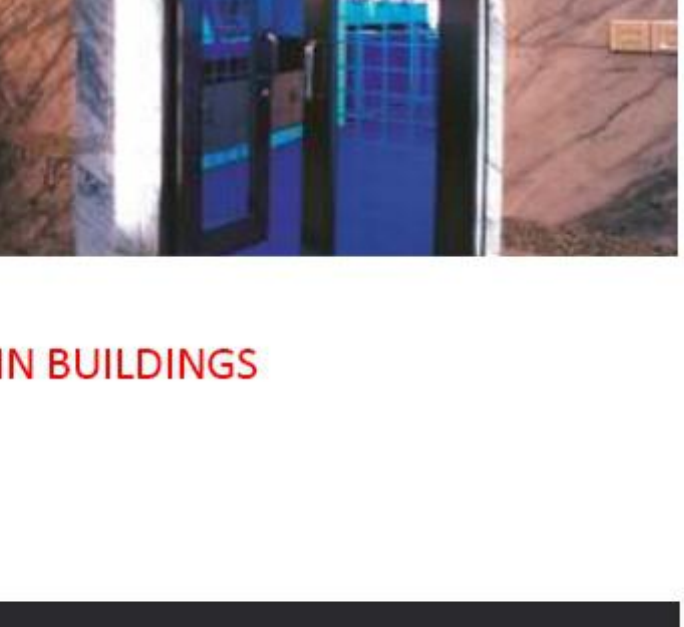
**PIR MOTION SENSORS / ENERGY SAVING SENSORS / MICROWAVE SENSORS**

**360° CEILING MOUNT PIR MOTION SENSOR**



**SPECIFICATIONS**

- Power Source : 110~240V/AC50/60Hz
- Detection Angle : 360°
- Detection Range : 16m(<24°C)
- Rated Load : Max.1200W
- Time Setting : 10Sec-7Min(adjustable)
- Ambient Light : <10Lux~2000 Lux(adjustable)IP20



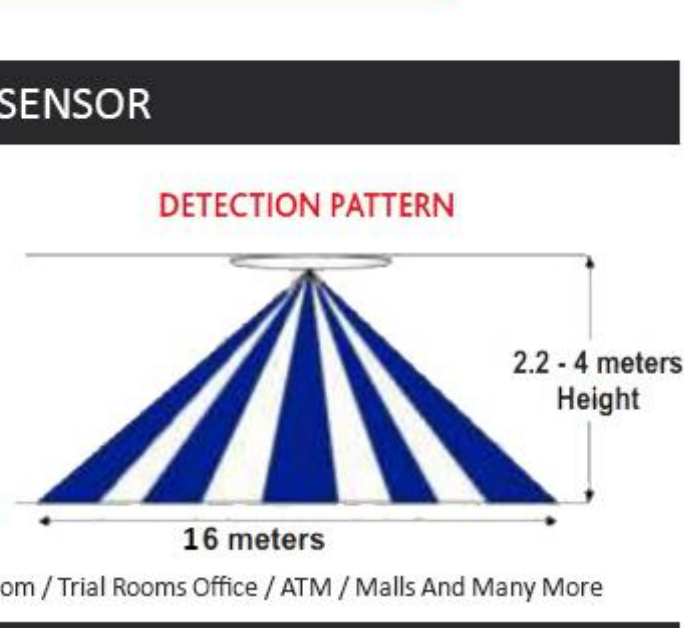
**APPLICATIONS** Main Entrance Toilet / Pantry Stairways / Lifts / Lobby Covered Parking Area Lockers Room / Trial Rooms Office / ATM / Malls And Many More

**360° FLUSH CEILING MOUNT OCCUPANCY SENSOR**



**SPECIFICATIONS**

- Power Source : 110~240V/AC50/60Hz
- Detection Angle : 360°
- Detection Range : 6m(<24°C)
- Rated Load : Max.1200W
- Time Setting : 10Sec-7Min(adjustable)
- Ambient Light : <10Lux~2000 Lux(adjustable)



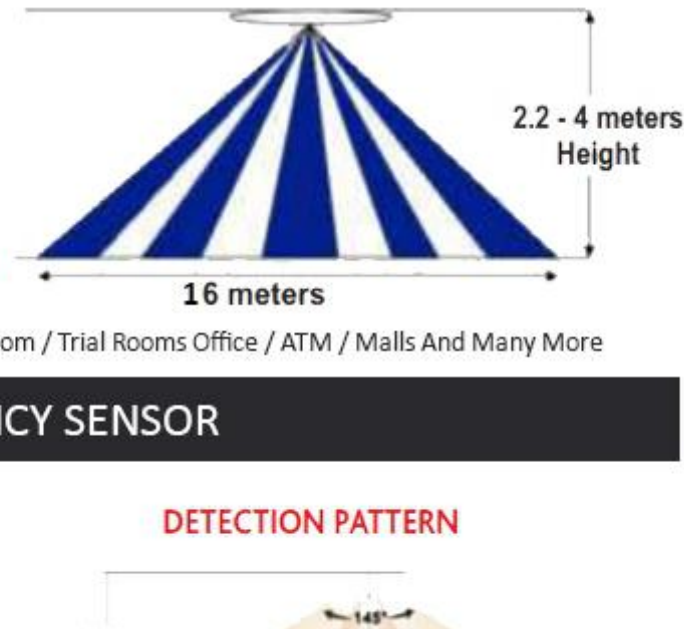
**APPLICATIONS** Office Cabins Conference Hall Meeting Rooms And Many More

**360° CEILING MOUNT OCCUPANCY SENSOR**



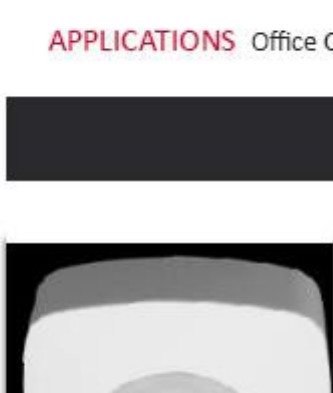
**SPECIFICATIONS**

- Power Source : 110~240V/AC50/60Hz
- Detection Angle : 360°
- Detection Range : 16m(<24°C)
- Rated Load : Max.1200W
- Time Setting : 10Sec-7Min(adjustable)
- Ambient Light : <10Lux~2000 Lux(adjustable)IP20



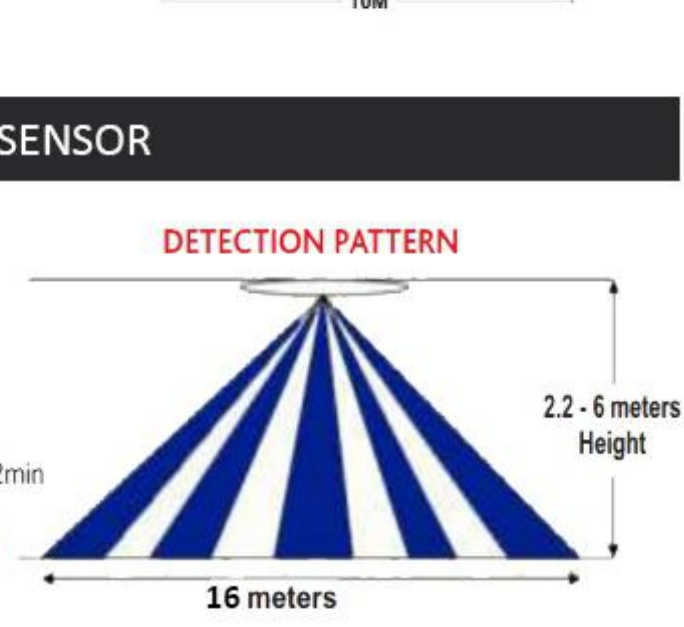
**APPLICATIONS** Office Cabins Conference Rooms Meeting Halls Corridors And Many More

**ENERGY SAVING SMART SWITCH / FLUSH MOUNT WALL SWITCH**



**SPECIFICATIONS**

- Power Source : 110~130V/AC 220~240V/AC
- Detection Angle : 160°
- Detection Range : 9m(22~24°C)
- Rated Load : Max.1200W
- Time Setting : 10±3Sec~8±2Min.(adjustable)
- Ambient Light : <10Lux~2000 Lux (adjustable)
- Working Humidity : <93%RH
- Work Temperature : -10°C~+40°C,IP44



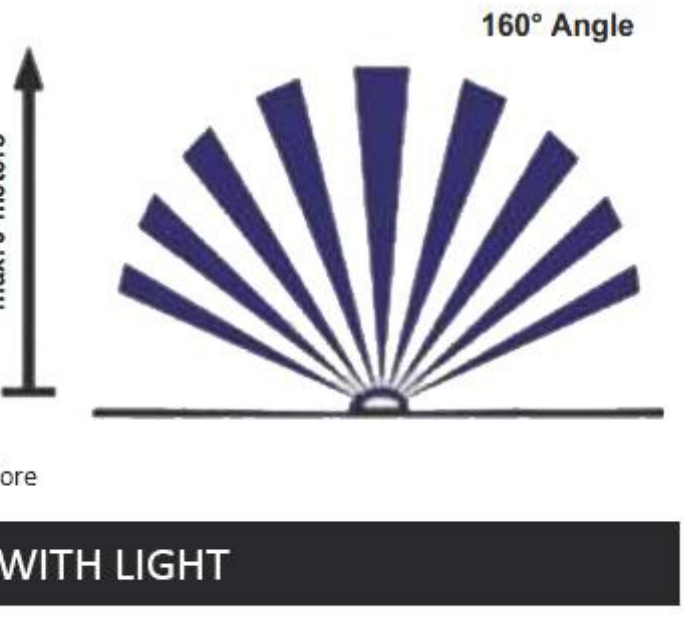
**APPLICATIONS** Rest Room / Office Cabins Lockers / Stairways Lifts / Toilets Main Entrance And Many More

**CEILING MOUNT PIR MOTION SENSOR WITH LIGHT**



**SPECIFICATIONS**

- Power Source : 110~240V/AC50/60Hz
- Detection Angle : 360°
- Detection Range : 6m(<24°C)
- Rated Load : E27.2X25W.Max
- Time Setting : 10Sec-3Min(adjustable)
- Ambient Light : <10Lux~2000 Lux



**APPLICATIONS** Rest Room Corridor / Varanda Lifts / Lift Lobby ATM'S Malls Shopping Complex Basement And Many More