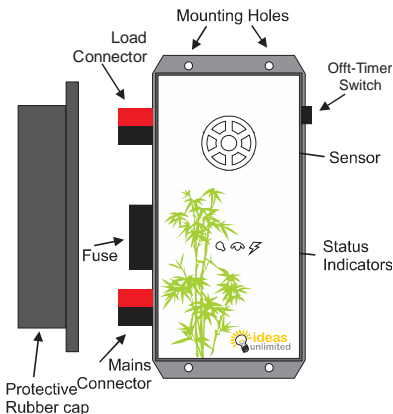


Movement Sensor Switch – MS 102 Series




Compact External Fit type

Thank you for purchasing the Movement Sensor Switch. With this step towards energy efficiency you have joined the increasing number people who prefer green and smart living.

Product description



Status Indicators:

	Power (White)
	Sense (Blue)
	Load (Red)

Off Timer:
2 Minutes or
6 Minutes.

Mains Connector:
(110V-230V Wide
range, 50-60Hz)




Load Connector:
Maximum: 600 Watts

Fuse:
6A Glass fuse in
socket

MS102 Series Product description

Sensor coverage area

The sensor used is a passive sensor (Does not emit any light or any form of energy).

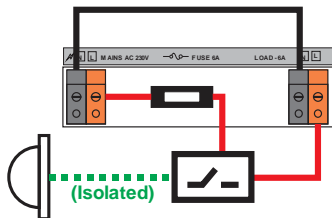
Sensor	Coverage Area	Illustration	Models
Wide	Wide area (20'X20' approx.) - basement, parking lots etc.		MS102-W6A
Medium	Typical room (14'X14' approx.)		MS102-M6A
Narrow	Zone within a typical room. (8'X8' approx.)		MS102-N6A

The sensor receives and focuses Infra-red emitted by surroundings on to an IR sensitive photo cell. Based on the model sensor ranges differ.

Technical Specification:

Parameter	Value
Sensor Range:	MS102-W6A: 20'X20' maximum MS102-M6A: 14'X14' maximum MS102-N6A: 08'X08' maximum
Operating Voltage	110-230V AC, 50-60Hz (Wide Voltage range)
Load Capacity:	600 Watts Maximum
Unit Dimensions:	154 x 85 x 43 mm
Off Timer Options:	2 Minutes for areas with high activity 6 Minutes for areas with low activity
Power Consumption	Standby mode: 50-100 milli-Watts Active mode: 350-450 milli-Watts
Safety Features:	1) 6A Glass Fuse (user-replaceable) present to prevent short-circuit/overloading 2) Higher rating connectors and contacts for safety and reliability. 3) Safety rubber cap to cover connectors for both safety and aesthetics. 4) Shock proof (end user useable) connectors 5) Complete electrical isolation between Sensing and switching circuit

Internal wiring reference



Simple Installation of Movement Sensor

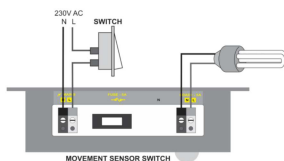


Figure 1: Simple Schematic to install MS 102 Series

Installation while retaining existing wiring and switches

The unit is also designed to seamlessly integrate into your existing electrical wiring and control selected electrical appliances in a typical room.

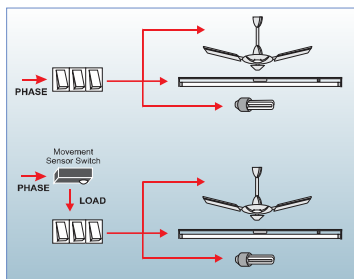


Figure 2: Installing Movement Sensor retaining existing wiring and Switches

The Schematic in Figure 3 shows how to install the unit in a room with existing wiring and switches.

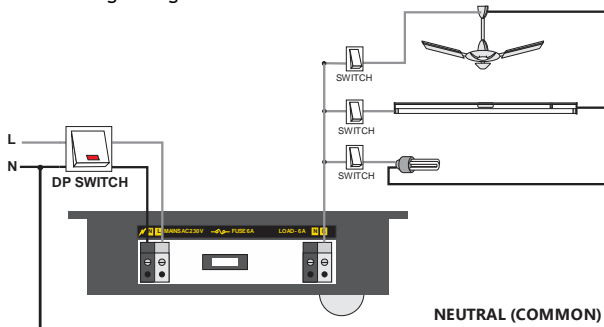


Figure 3: Installation schematic to retain the switches on all appliances in a room

Note: The DP switch shown in Figure 3 is optional and not necessary for installation. Our unit is designed to operated 24X7, 365 days on continuous power and consumes negligible power in standby mode.

Recommended Location of Sensor in a room

We recommend installing the sensor on the roof so that sensor gets a clear and unobstructed view of the room. You may have to draw 3 or 4 wires (depending on model/load) from the Sensor to the switch board in your room.

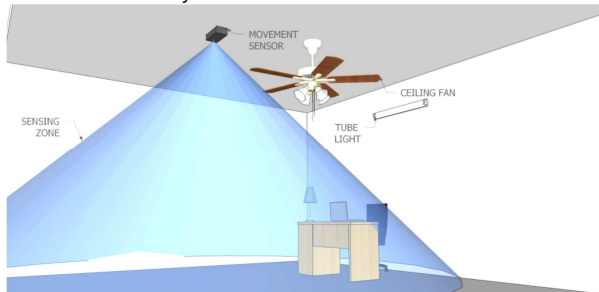


Figure 4: Roof Installation: Recommended installation in a room

In case due to various reasons, sensor cannot be mounted on roof, we recommend installing on the wall with a 30 degree incline, looking downwards.

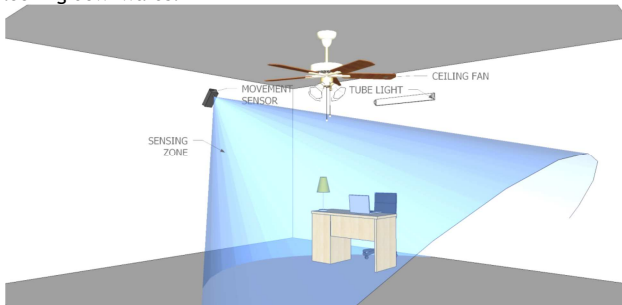


Figure 5: When mounting on the wall, mount inclined looking downwards, but as close to ceiling as possible for clear view

Note: Avoid mounting the sensor on the wall. If mounting on the wall is inevitable, mount is close to the roof so that sensor has a clear and unobstructed view of the room.

Timer Selection

Setting	Capacity
2 Mins.	Corridors, low usage spaces, or places used by many people.
6 Mins.	Work areas, Office cubicles, very few people presence in the sensor zone

Device Power Consumption

Standby mode: 50 mili-watts

Active mode: 350-450 mili-watts

Other Movement Sensor products available:

MS101 Series - Up to 1000W, external fit type, industrial use

MS201 Series - Up to 600W, concealed fit type, false ceilings

MS301 Series - Up to 2200W, for Air conditioners

Sensor based Security Products from Ideas

Unlimited:

HAWKEYE Series: Industrial/Farm Security and Intrusion detection system.

Application Ideas

Energy Saving:

1. Corridors of large buildings with less usage
2. Cubicle Areas, Cabins of offices
3. Conference rooms in office buildings, public buildings
4. Parking lots of Apartment complexes
5. Common Areas of Apartment complexes
6. Rest rooms and Washrooms in hotels, public buildings, office buildings
7. Basement areas of Apartments and basements
8. Basements and narrow corridors of Shopping centers
9. Lab Area, any kind of activity areas in large buildings, factories.

Security:

1. Outdoor lighting in compounds of houses
2. Outdoor lighting in hotels, public buildings
3. In front of Basement door
4. Basements and narrow corridors of Shopping centers

Elder Care/Child Care:

1. Switch on narrow corridor lights as soon as someone enters the zone
2. Switch on bathroom lights automatically on entry, conserve energy when not in use
3. Switch on lights outside the house as someone walks by within the compound
4. Switch on lights in bedroom when someone gets out of bed

Our Commitment

Green: Technologies that are environment friendly

Economical: Reduce cost of usage

Smart Living: Enhanced living experience

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