



RMG AUTOMATION

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PIR Human Motion Sensor Switch

Model : PIR_SW1



User Manual

Version 2.1-09/23



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1. INTRODUCTION

The PIR Human Motion Sensor Switch uses the infrared radiation emitted by the human body. Within the detection range to switch ON or switch OFF any device such as light, fan etc. through relay. The PIR Sensor switch can be used at Staircase, Entrance, Basements, Common toilets, parking area, living room, conference rooms, corridors etc

It thereby SAVES POWER and used as a POWER / ENERGY SAVER.

2. DESCRIPTION

- **INPUT LINE:** input lines to connect 230 V supply.
- **OUTPUT LINE:** output lines are available to connect to load.
- **LUX Control:** It helps to adjust the sensing distance.
- **TIME Control:** It helps to adjust switch ON time.

3. TOOLS REQUIRED

- Multistrand power cable
- Insulation tape
- Wooden Gattas
- Screws for mounting unit on wall.
- Line tester
- Wire stripper
- Simple hammer
- Drill gun

4. INSTALLATION PROCEDURE

Caution: Switch off the main power while doing the Power Connection steps.

Step 1: Wall mount the PIR motion sensor switch, Keep the sensor unit 1.6 meter higher from the ground level.

Step 2: connect AC 230V supply to red and black wire of PIR motion sensor switch.

Step 3: connect blue and black output wires from motion sensor unit to load.
(Refer Figure. 1).

This completes installation.



Figure1: Power & Load connection

Note: In case of doubts please call 044 - 43180017 or What's App 9940594413 from Monday to Saturday 10 am to 6 pm.

Technical Specification:

- Rated voltage: 110V/220V
- Light Sensitivity: $\leq 10\text{LUX}$
- Sensing distance: $\leq 8\text{M}$
- Sensor angle: 100°
- Load power: incandescent lamps $\leq 60\text{W}$, Upto 300/1200W Max
- Delay time: $\leq 60\text{s}$
- Ambient light - 3-2000 (Adjustable)
- Load type: Incandescent lamp, LED light, CLF, fans, etc
- Detecting distance: 10~12 Mtrs (Dept temp)
- Detecting Angle: 180 Degree.
- Installation Height: 2.2-4 Mtr
- Motion Detection Speed: 0.6~1 m/s
- Power Cusumption: 0.1W (static) & 0.4(Work)
- Working Humidity: less than 93%RH
- Delay: 10 Seconds -7 Minutes (Adjustable)

5. OPERATING PROCEDURE

- Give AC power supply to PIR motion sensor switch.
- Use PIR motion sensor switch to ON/OFF electrical appliances.
- 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.

6. TROUBLE SHOOTING METHODS

Sl. No.	Error	Solutions
1	Device dead / Not Powered ON	a. Check the power connection wires for loose contacts. b. If problem continues, contact RMG Automation for support
2	Load connected is not turning ON	a. Check whether the connections are given properly. b. Check the PIR motion sensor switch, whether it is working properly. c. If connections are okay and still issue persists, contact RMG Automation for support