

TECHNICAL INFORMATION

- Operating voltage: AC 110V-230V (50Hz-60Hz)
- Load: AC 110V-230V (50Hz-60Hz) 1000 Watts Maximum (For higher loads use any external AC relays or contactors)
- Power Consumption: 0.025 Watts (5V DC) When load is inactive, When load is active 0.375 Watts (5V DC)
- Sensor type: Passive Infrared Sensor (PIR)
- Control : Microcontroller and Relay(7Amp) switching
- Detection angle and Range: < 140 degree, up to 7 Meters
- Load active duration after motion sensing : 120 to 250 seconds
- Product Size: 80mm x 61mm x 31mm
- Load type: CFL bulb, Tube lights, Incandescent lamp, LED light or any other kind of lamps, Exhaust fan.

APPLICATION

Automatic room lights are suitable for garages, staircases, bathrooms, passageways, etc. where light is required only when someone is present.

The sensor switch can also be integrated with the bathroom exhaust fan.

WORKING

The PIR sensor detects human motion (up to 7 meters) by sensing the infrared emission from the human body. On sensing a motion, the microcontroller will switch ON the light and starts the timer which expires in 200 to 250 seconds. The timer will be reset with every new motion detected. Once the timer expires the light will be switched OFF. That is, the light will be switched OFF only if no motion is detected for 250 seconds.

Note: If a person stands still (without any motion) in front of the sensor for more than 250 seconds, the light will be switched OFF.

CAUTION

- Ensure that the power supply is switched off before installation or servicing the product.
- The sensor should be connected to a stable power supply.
- The sensor should be installed between the normal switch and the light bulb.
- Installation should be done by a person who knows the electrical power supply.
- The product should not be modified, this will void the warranty.

INSTALLATION AND TESTING PROCEDURES

- SS Step 1: Use an electrical tester to identify the Phase and Neutral in the light bulb connection.
- Step 2: Switch OFF the main AC power supply.
- Step 3: Fix the sensor on the wall vertically using screw and fisher or peel the 3M sticker on the backside of the product.

- Step 4: Fix the PIR sensor facing the area where motion usually happens (Fig. 1). Example: Towards the door of the bathroom/toilet.

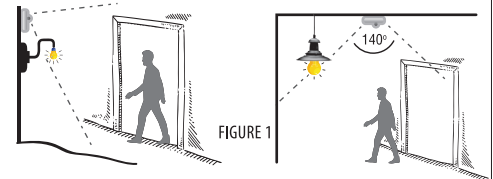
- Step 5: Connect the sensor RED wire to the Phase wire and Black wire to the Neutral wire of the power supply. Connect GREEN and BLACK wire to the light bulb. (As shown in Fig. 2)

Note: BLACK wire is common for the power supply and bulb

- Step 6: Testing the product after proper installation. Switch ON the Power supply. The sensor will switch ON the light initially regardless of the sensor output. After that avoid any motion in front of the sensor for the next 250 seconds (No one should be present in the 7-meter range). The light will be automatically switched OFF. Then create motion in front of the sensor within the 7-meter range. The sensor will activate the light. The light will be active for next 200 seconds.

Note: When the Power supply goes off and comes back, the sensor will activate the light without any detection of the motion.

INSTALLATION Ensure that the motion sensor is faced towards the area where human movements usually happen. The sensor must be placed as shown in Fig. 1.



CONNECTION DIAGRAM

