

# User Guide

## Energy Saving Smart Motion Detection Sensor Switch (PIR) for Home, Offices, Building automation.


Elyctrify's motion detection sensor and switch comes in two configuration, motion detection switch with day night detection and motion detection without day night detection.

Both have their own use cases, the motion detection with day night detection (**DND**) can be used to automate lights in the parking, stair case, bathroom, lobby, corridors ...etc.

Motion detection switch without day night detection (**NDND**) can be used where continuous operation of load is necessary, like Fan, Bath room exhaust fan, Security Alarm ...etc.

Sensor Switch can be configured in one mode from accessing trimpot at the back side of sensor switch. (please refer wiring diagram page for configuration.)

### Key Feature of Product

- Approx. 2 min delay timer (Auto extend if motion is detected within 2min)
- Detection range upto 6 meter
- Designed for 24x7x365 days of operation.
- Small in size 60Lx35Wx40H mm
- No load power consumption < 1W
- 1 Year Replacement Warranty
- Input 12V - 16V DC
- Simple to integrate with any type of load
- Two mounting pins, for easy installation, can be mounted on any type of surface
- Industrial grade 0.75 sq mm finolex wires to support 7A load current
- Made In India 

### How to install Motion Detection Switch for optimal and efficient operation.

- Keep minimum 1/2 feet distance from load, for example do not install motion switch near to the hot object or heat generating object.
- Do not point sensor towards direct sunlight or in-front of light source.
- Do not close the sensing area with any object or metal plate.
- Do not connect output load above mentioned limit, for optimal operation connect load below 500W
- Point the sensor where you want motion should be detected.
- Keep the main switch on all the time for good results.
- Sensor must be fixed on flat surface with given screws or double sided tap on the back, do not keep sensor switch in hanging state.

### Troubleshooting and testing

Motion Sensor Switch uses proximity infrared technology to detect the motion of invisible IR radiation emitted by human and animal body.

- Check the wiring diagram twice before turning ON the supply.
- Check and Confirm that load is connected as per the wiring diagram.
- Check and confirm the mains supply is available.
- For **Day night detection model (DND)** light **must not** fall on the sensor (this model only activate when there is sufficient darkness around the sensor area.
- To check turn off operation, person must leave the room, sensor switch will not turn off load if it detect the presence of human or animal in the detection area.

It takes 5-10 minute for the motion sensor to stabilise after the installation, during this time the sensor will turn ON and OFF the load several times, this is normal. For intended operation sensor must be fixed on surface with mounting screws or double side glue tape.

**Motion Switch with Day Night Detection model (DND) activates the load, when the motion detected in dark conditions, In the presence of bright light/sunlight it will not turn ON the load.**

**Important note:** Sensor Switch may false trigger during high outdoor temperature or during night time. The rate of false detection is less than 2%, this is due to all physical bodies radiates IR radiation.

### Care, Do's and Don'ts

- Do not drop the sensor from distance, this may damage the sensor
- Do not connect the load which is higher than mentioned Amp. Voltage rating.
- Do not open the back cover of the sensor.
- If you don't understand the wiring diagram, consult the electrician, do not experiment with connections
- Protect the sensor from water and direct sunlight for efficient operation.

for any customer related complaints / warranty , please write to us at **tadoba.retail@gmail.com** we will be happy to assist you.

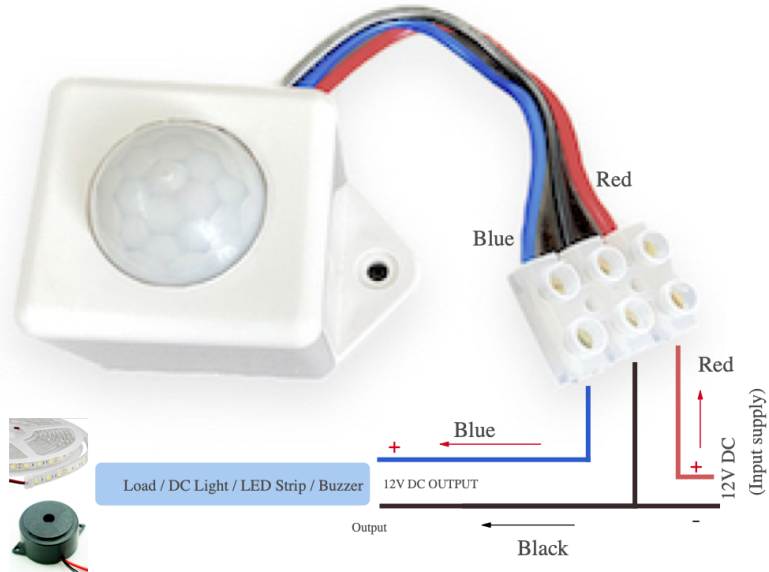


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### Wiring diagram

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Black wire is common, the Red wire is line input voltage and Blue must be connected to load.

The pictures of the load like bulb, fan, horn are given for example purpose, you can connect any load, which require ON and OFF operation after motion is detected.

## Day/Night Configuration



NDND - No day night detection, sensor switch will ignore the light conditions and turn ON and OFF the load as soon as motion is detected (Anti-clockwise)



Turn ON the switch when medium darkness detected (LUX - 1075, Overcast Day)



DND - Day night detection, sensor switch will consider the light conditions and turn ON and OFF the load only when there is darkness around the sensor. (Clockwise), (LUX - 107, deep dark)

# You can set the trimpot in-between also as per your need. Please do not hard press the trimpot. Look for red mark on trimpot for guidance



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Smart Sensors

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version 1.5