

Motion Sensor Light IOT Project

- When anyone enters the toilet the IR proximity sensor senses the motion and turns on the light, and when he or she exits from the washroom the IR sensor again senses the motion and turns off the light automatically. The range of the sensor is very good and the range also can be adjusted. So the sensor can easily detect motion to control the toilet light automatically. You can also adjust the range of this sensor.
- Sensor lamps are commonly employed for energy conservation by detecting human and animal motion, commonly employed in security systems, street lights, and outdoor spaces like lift lobbies, common staircases, parking areas, and gardens. Their applications extend to various settings where motion-sensing lighting is beneficial for energy efficiency and security.
- You can use this motion activated light circuit as an automatic washroom light switch. When anyone enters the washroom the IR proximity sensor senses the motion and turns on the light. After that when he or she exits the washroom, the IR sensor again senses the motion and turns off the light.
- This motion detector circuit is versatile and can be installed in various locations, such as the front gate or staircase. Upon detecting movement, the sensor triggers the relay, initiating the glow of the bulb. This simplicity makes it suitable for applications like security systems, standalone alarms, or basic light automation setups. The circuit provides a practical solution for enhancing visibility in response to human motion.
- While testing the circuit, whenever the IR Proximity sensor detects any object nearby, the Green LED turns ON, and toggles the current state of the relay. The RED LED is the indicator for the relay.

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