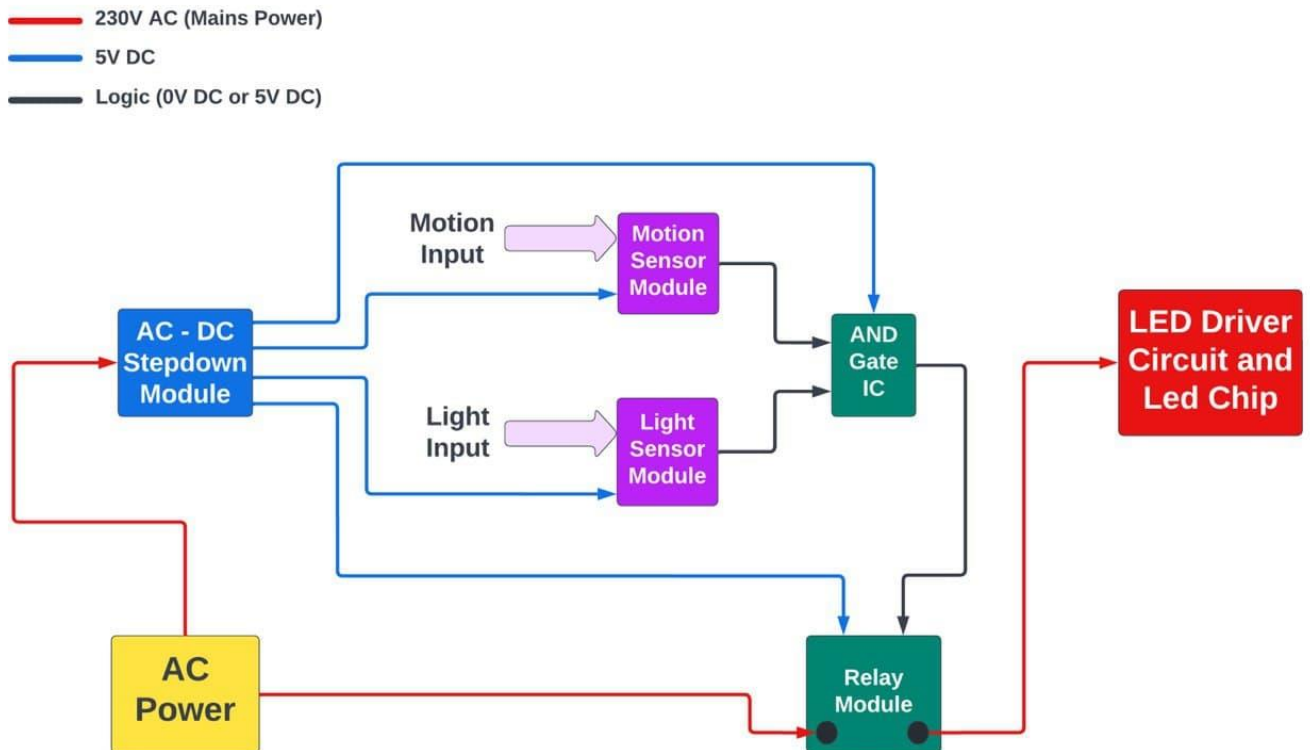


## SELF-SWITCHING LIGHT BULB – USER MANUAL

This product is an energy saving automatic light bulb. It can identify day and night, presence of a moving object precisely and automatically. Its performance is very stable. The light will shine and automatically turn ON when one enters the detection field when there is less light in the surrounding; the light will turn OFF after one leaves the detection field.

- This product can identify day and night automatically; it will work at night and turn off in the daytime. It has a pre-defined ambient light sensitivity level.
- It has a maximum range detection system which is also suitable for any type of consumer.
- The time delay of the sensors is adjusted for a suitable value so that the consumer will not feel any disturbance when using the product.

### PRODUCT ARCHITECTURE



## HARDWARE CONTENT

PIR (Passive Infrared Resistor) Sensor



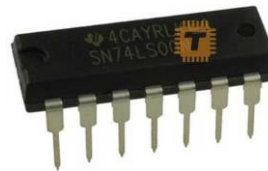
LDR (Light Dependent Resistor)



AC-DC voltage step-down module



NAND gates integrated IC module



Single channel relay module



MCOB LED chip



## INSTALLATION

Avoid installing where there is constant air stream or severe temperature changes.

## MOTION SENSOR OPERATION

When the motion sensor detects movement, the LED lights will turn on. Once the motion has stopped, the lights will turn off. Sensitivity, Time Delay and Lux are pre-adjusted, so the user won't have to worry about adjusting the controls.

## IMPORTANT SAFETY INSTRUCTIONS

1. Turn power OFF before installing or servicing.
2. Do NOT touch, operate, or install fixture while in contact with standing water.
3. Do NOT change the position of the PIR sensor head by removing the outer cover.
4. Electrical requirements: 230V supply voltage and 50Hz domestic supply.
5. Do not mount near other light sources that can compromise the LDR sensor.

Select the installation location carefully. Mostly suitable for enclosed pedestrian tunnels which have continuous movements most of the times. Also suits for domestic usage. Do NOT install near other sources of light. The other light sources can fool the LDR sensor into thinking it is daylight.

## ASSEMBLY AND INSTALLATION INSTRUCTIONS

With power to the electrical contacts turned OFF, remove the old bulb, and locate the product correctly. You can easily install the product just like a normal light bulb. No tools required for the installation.

## OPERATING INSTRUCTIONS

The fixture comes with a 120° motion sensor and a built-in light sensor. The light sensor (LDR sensor) disables the motion detector during daylight hours and only allows the motion sensor to activate the light after dark. The security light will not activate during daylight hours regardless of whether it sees motion or not.

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Light does not come on at night when motion is detected.	<ul style="list-style-type: none"><li>• No power is being delivered to the fixture.</li><li>• Another light source is causing the security light to think it is daylight.</li><li>• Wiring inside electrical came loose.</li></ul>	<ul style="list-style-type: none"><li>• Check that circuit breaker and/or wall switch power is ON.</li><li>• Turn OFF surrounding lights and/or re-aim the sensor head.</li><li>• After turning power OFF to the fixture, reconnect any loose wiring.</li></ul>
Light comes on during the day.	<ul style="list-style-type: none"><li>• Light sensor may be in a shaded area and is fooled into thinking it is nighttime.</li><li>• Light sensor is faulty.</li></ul>	<ul style="list-style-type: none"><li>• Shine a flashlight onto the light sensor. If the light turns off, then the fixture was mounted in an area that does not enough light to enter the sensor. Relocate the position of the bulb.</li></ul>

		<ul style="list-style-type: none"> <li>• If under warranty, contact customer service.</li> </ul>
Light cycles ON and OFF continuously.	<ul style="list-style-type: none"> <li>• Light sensor is sensing reflected light from the bulb.</li> </ul>	<ul style="list-style-type: none"> <li>• Change position of light head aim in light away from the reflecting surfaces.</li> <li>• Relocate the bulb to a different location where is no longer causes reflected light.</li> </ul>
Light comes ON for no apparent reason at night	<ul style="list-style-type: none"> <li>• Light is sensing motion detection in the detection zone.</li> </ul>	<ul style="list-style-type: none"> <li>• Make sure the sensor is not picking up moving objects such as bushes, trees, traffic, water etc.</li> <li>• Test the motion sensor by covering up the front curved lens with cardboard to block the view. If the light turns OFF, then something in the detection zone is triggering the sensor. Reposition the motion sensor.</li> </ul>

These instructions may not cover all details or variations of this product for your requirements. Should further information not covered by these instructions be required, please contact the manufacturer by email at [sales@powerelectronics.com](mailto:sales@powerelectronics.com) or by phone at +94772477309 for further assistance. Please visit for our official website [powerelectronics.com](http://powerelectronics.com) for warranty and return information.