

8. MANUAL OVERRIDE

8.1. Turn the Light ON Continuously

To keep the light ON continuously:

Using the connected light switch, turn OFF → ON. Repeat this twice within 3 seconds.

The sensor will enter Manual Override Mode, and the light will remain ON.

8.2. Return to Normal PIR Operation

There are two ways to return to normal sensor operation:

Option 1 – Switch Reset

Turn the light switch OFF, then ON again.

Option 2 – Automatic Reset

If Manual Override is left active, the sensor will automatically switch the light OFF after 8 hours and return to normal PIR operation.

9. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	PROPOSED SOLUTION
Light or load does not turn on when movement is detected	1. No mains voltage	• Ensure connections to the power source and load is correct • Check the Circuit breakers and switches • Ensure supply voltage is between 220V and 240V AC
	2. Surrounding light may be too bright	• Check if the Lux setting corresponds with the ambient light conditions • Relocate the sensor
	3. Control settings incorrect	• Check if the Time delay is set to your required settings • Check the Lux settings
	4. Sensor positioning is incorrect	• Check if there is any hindrance in front of the detector which may affect the reception of signals • Check if the ambient temperature is below 40°C • Confirm the installation height is between 2.2m and 4m
	5. Lights turn off while working or sitting at a desk	• Check Time delay setting • Check the Lux levels
Light turns ON for no apparent reason (Intermittant fault)	1. Animals, birds or pets	• This possibly could be unavoidable
	2. Heat sources such as air conditioners, vents or heat extractor ducts activating the sensor	• Relocate the sensor • Control settings may have been set at daytime which can affect the night distances and sensitivity. Reset at night
	3. Light operates during the day	• Reduce the Lux setting to the desired light setting
	4. Sensor affected when switching On/Off lights, fans or electrical devices on the same circuit	• Check for an arcing or faulty switches • Connect the PIR sensor to separate circuit
Light remains ON continuously	1. Control settings incorrect	• Check Time delay setting • Check the Lux levels
	2. False Triggering	• Relocation PIR sensor may assist • Check the controls for Time and Lux levels
	3. Interference by sunlight	• Control settings may have been set at daytime which can affect the night distances and sensitivity. Reset at night

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INSTRUCTION MANUAL
PIR34 & PIR34B
IP65 180° PIR Motion Sensor



Indoor & Outdoor Installation

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1. INTRODUCTION

The PIR34 features a highly sensitive sensor and an integrated circuit, delivering automation, convenience, safety, energy efficiency, and reliable performance. Using passive infrared (PIR) technology, it detects the infrared radiation emitted by the human body and automatically switches on lighting or other electrical devices within the sensor's rated load when motion and body heat are detected.

A convenient manual override function allows the automatic sensor mode to be bypassed, enabling connected lights to remain on continuously when required.

With a 180° detection angle and adjustable settings, the PIR34 integrates easily into both new and existing installations. It automatically distinguishes between day and night operation, helping to reduce unnecessary energy consumption. Rated IP65, the PIR34 is suitable for both indoor and outdoor installations, making it ideal for a wide range of residential, commercial, and industrial applications. Installation must be carried out by a qualified electrician.

2. SPECIFICATIONS

Function	Range
Voltage	220 - 240V AC
Power Frequency	50/60 Hz
Ambient Light	<3 - 2000 Lux (Adjustable)
Time Delay	10 sec (±3 sec) to 15 min (±2 min)
Rated Load	800W Incandescent / 400W LED/CFL
Detection Area	180°
Detection Distance	12m Max <24°C
Detection Motion Speed	0.6 to 1.5m/s
Installation Type	Wall Surface Mount

Function	Range
Working Temperature	-20 to 40°C
Working Humidity	<93% RH
Power Consumption	Approx. 0.5W
Installation Height	1.8 - 2.5m
IP Protection	IP65 Indoor & Outdoor Installation
Swivel Head	90° (L to R), 45° (up & Down)
Warranty	5 years
Standards	IEC 60669-1, IEC 60669-2-1 AS/NZS 60669.1, AS/NZS 60669.2.1

3. FUNCTION

a. Sensor Can identify between day and night (Lux Mode):

The consumer can adjust working state in different ambient light. It can work in the day time and at night when it is adjusted on the "☀" (sun) position (max). It can work in the ambient light less than 3 LUX when it is adjusted on the "3" position (min). As for the adjustment pattern, please refer to the testing pattern.

b. Time-Delay is added continually:

When the sensor detects movement while the light is already on, the countdown timer resets. This means the light will remain On for the full set duration from the moment of the latest detection.

c. Adjustable Time Delay:

The sensor can be set according to the consumer's desire, (10s, 30s, 90s, 3min, 7min, 15min)

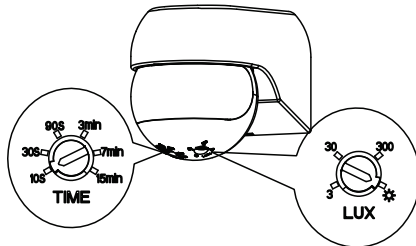
d. Auto or Manual Override Function:

The sensor can be operated in either Auto mode or Manual Override mode. In Auto mode, the sensor detects motion and automatically switches the connected load on. In Manual Override mode, the motion sensor is bypassed, allowing the connected light to remain continuously on. For added convenience and energy efficiency, the sensor automatically resets to Auto mode after 8 hours.

4. CONTROL SETTING INFORMATION

- Turn the TIME knob anticlockwise to the minimum (10s). Turn the LUX knob clockwise to the maximum ☀ (Sun).
- Switch on the power; the sensor will require 30 seconds to warm up. Once the sensor detects movement, the lamp will turn On. If no other movement is detected within the time duration set, the light will turn Off within the 10 seconds ±3 sec.
- Turn the LUX knob anticlockwise to the minimum (3). If the ambient light is more than 3 Lux, the sensor is not able to function. If the ambient light is less than 3 Lux (dark), the sensor will operate.

Note: When testing in daylight, please turn Lux knob to ☀ (Sun) position, otherwise the sensor will not work!



5. MANUAL OVERRIDE SETTING INFORMATION

1. Auto Sensor Mode → Permanent Stay On

- With the light operating in Auto Sensor Mode, switch the wall switch OFF→ON, OFF→ON (two complete cycles) within 3 seconds.
- The sensor will enter Permanent Stay On mode, keeping the light continuously ON like a standard light fixture.

2. Permanent Stay On → Auto Sensor Mode

- You can return the light to Auto Sensor Mode using either of the following methods:

Method 1: Manual Reset

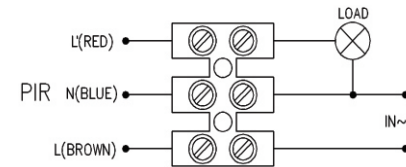
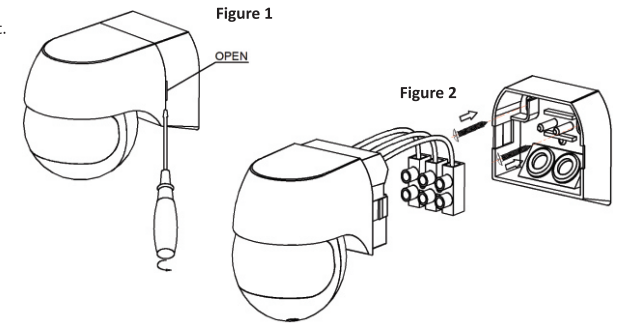
- Switch the wall switch OFF, then switch it ON again after at least 1 seconds.

Method 2: Automatic Reset

- If the light remains in Permanent Stay On mode, the sensor will automatically return to Auto Sensor Mode after 8 hours.

6. INSTALLATION & WIRING OPTIONS

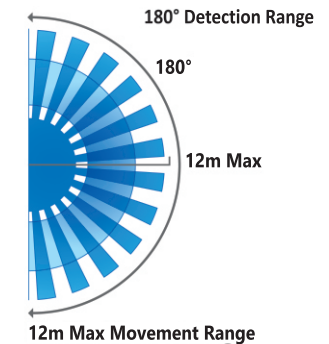
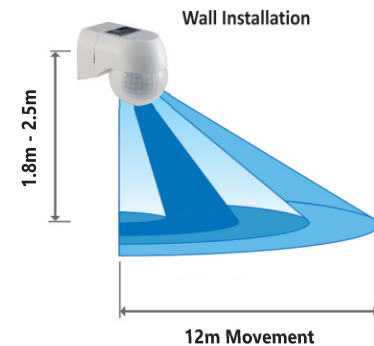
- Loosen the screw on the back of the sensor. Using a screwdriver, unclip and remove the mounting bracket.
- Locate the cable entry hole with the rubber gasket on the underside of the mounting bracket, and feed the power cable through the hole.
- Connect the power cable to the terminal block according to the wiring diagram.
- Reinstall the sensor onto the mounting bracket and securely tighten the screw.
- Adjust the sensor to the desired detection area, ensuring it is correctly aligned for optimal motion detection.
- Once the installation is complete, switch on the power and test the sensor to ensure it is operating correctly.



WARNING: Danger of Death Through Electrical Shock

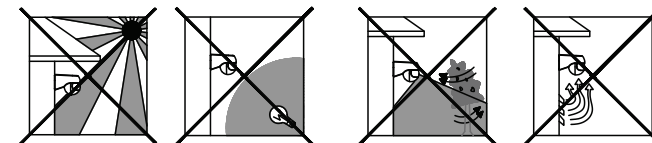
- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

7. SENSOR INFORMATION

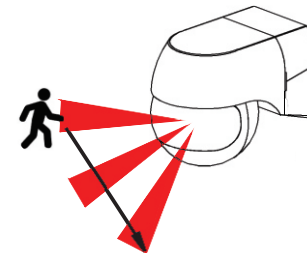


8. INSTALLATION ADVICE

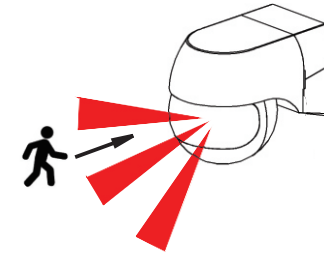
- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, light etc.
- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall plants etc.



Good Sensitivity



Poor Sensitivity



Note: The PIR sensor operates by detecting motion when the detector beams are interrupted, typically by the movement of an object or a walking person. If a person walks directly in front of or towards the beam, the sensor may not detect movement. However, when two beams are crossed, the PIR sensor detects movement, as it picks up the change in the infrared radiation pattern caused by the interruption of both beams. This method increases detection accuracy and reduces the chances of false or non-detection.