DEVMO PIR-8

DEVMO PIR-8 Automatic DC 12V-24V Infrared Motion Sensor Switch User Manual

Model: PIR-8 | Brand: DEVMO

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your DEVMO PIR-8 Automatic DC 12V-24V Infrared Motion Sensor Switch. Please read this manual thoroughly before use to ensure proper function and safety.

Product Features

- Infrared detection controller, designed to control load switches using infrared detection.
- LED lighting motion sensing switch with an adjustable OFF delay timing function from 1 to 10 minutes.
- Activates ON when motion is detected within its field of view. The ON time hold is adjustable after motion ceases.
- PIR (Passive InfraRed) sensor offers an effective range of 16 feet, with diminished sensing up to 26 feet for moving human bodies.
- The PIR Dome Lens provides a nominal 60-degree field of view.
- Operates on 12V or 24V DC and can switch up to a 6A load.

Specifications

Item	Detail
Item Name	Body Sense Infrared LED Strip Controller
Power Supply Voltage	12-24V DC

Output Voltage	12-24V DC
Max Load Current	6A
Induction Range	8m (approximately 26 feet)
Effective Range	16 feet
PIR Dome Lens Field of View	60 degrees nominal
Item Weight	0.05 Kilograms (1.58 ounces)
Color	Black
Mounting Type	Wall Mount

Package Contents

- 1pc x DEVMO PIR-8 Body Sense Infrared LED Strip Controller

Product Overview

Figure 1: Top view of the DEVMO PIR-8 Motion Sensor Switch, highlighting the PIR dome and the green terminal block for wiring connections.

Figure 2: Front view of the DEVMO PIR-8 Motion Sensor Switch, displaying the input and

output labels, and the adjustable time delay dial.

Figure 3: Bottom view of the DEVMO PIR-8 Motion Sensor Switch, showing the mounting holes for installation and a quality control sticker.

The DEVMO PIR-8 motion sensor switch is a compact device designed to automate lighting based on human motion detection. It features a passive infrared (PIR) sensor, a terminal block for power input and load output, and an adjustable dial for setting the delay time.

Setup and Installation

1. Mounting

Select a suitable location for mounting the sensor. The sensor has a 60-degree field of view and an effective range of 16 feet (up to 26 feet with diminished sensing). Mount the device using the integrated mounting holes on a stable surface, such as a wall or ceiling, ensuring it has a clear line of sight to the area where motion is to be detected.

2. Wiring Connections

The sensor operates on 12V-24V DC. Ensure the power source is disconnected before making any wiring connections to prevent electrical shock or damage to the device.

1. **Input Connection:** Connect the 12V-24V DC power supply to the "INPUT 12/24V" terminals. Ensure correct polarity: positive (+) to positive, and negative (-) to negative.
2. **Output Connection:** Connect your LED light or other 12V-24V DC load to the "OUTPUT 12/24V" terminals. Ensure correct polarity. **Important: The sensor switches the ground (negative) side of the circuit. Ensure your load's positive terminal is connected directly to the power supply's positive, and the load's negative terminal is connected to the sensor's negative output.**

Warning: Incorrect wiring, especially regarding polarity or switching the wrong side of the circuit, can lead to malfunction or damage to the sensor and connected devices. Always verify wiring before applying power.

Your browser does not support the video tag.

Video 1: This video demonstrates the DEVMO PIR-8 Automatic DC 12V-24V Infrared PIR Motion Sensor Switch, showcasing its physical features and potential applications. It provides a visual overview of the product.

Operating Instructions

Adjusting Delay Time

The DEVMO PIR-8 features an adjustable dial on its side (refer to Figure 2) to set the OFF delay time. This dial allows you to configure how long the connected load remains active after motion is no longer detected. The delay can be set from 1 to 10 minutes.

- Rotate the dial clockwise to increase the delay time.
- Rotate the dial counter-clockwise to decrease the delay time.

Experiment with different settings to find the optimal delay for your specific application and environment.

Your browser does not support the video tag.

Video 2: This video provides another perspective on the DEVMO PIR-8 Automatic DC 12V-24V 8A Infrared PIR Motion Sensor Switch, potentially showing its features or operation in more detail.

Maintenance

- **Cleaning:** Keep the PIR dome lens clean and free from dust or obstructions. Use a soft, dry cloth to gently wipe the lens. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check wiring connections to ensure they are secure and free from corrosion.
- **Environment:** Ensure the sensor is not exposed to direct sunlight, extreme temperatures, or excessive moisture, as these can affect performance and lifespan.

Troubleshooting

Problem	Possible Cause	Solution
Light does not turn on with motion.	◦ No power to the sensor. ◦ Incorrect wiring. ◦ Sensor obstructed. ◦ Load (LED light) is faulty.	◦ Check power supply connections and voltage. ◦ Verify wiring according to the "Setup and Installation" section, especially polarity and output switching. ◦ Ensure the PIR dome is clear of obstructions. ◦ Test the LED light directly with a power source.
Light stays on continuously.	◦ Constant motion detected. ◦ Incorrect wiring (e.g., load connected directly to power, or sensor switching positive instead of negative). ◦ Sensor malfunction.	◦ Ensure the sensor is not in an area with constant movement or heat sources. ◦ Re-check wiring, especially the output connection. **The sensor switches the ground side. Ensure the load's positive is directly connected to the power source's positive, and the load's negative is connected to the sensor's negative output.** ◦ If wiring is correct and no motion is present, the sensor may be faulty.

Light turns off too quickly or too slowly.	Delay time setting is incorrect.	Adjust the delay time dial on the side of the sensor as described in "Operating Instructions".

Warranty and Support

For warranty information or technical support, please contact DEVMO customer service through your purchase platform or visit the official DEVMO website. Keep your purchase receipt as proof of purchase.