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Heayzoki Heayzokifdgxkw1e2i-02

Heayzoki Mini PIR Motion Sensor Switch User Manual

Model: Heayzokifdgxkw1e2i-02

1. Introduction

Thank you for choosing the Heayzoki Mini PIR Motion Sensor Switch. This device is designed to detect human movement using infrared radiation, providing automatic control for lighting and other applications. Its compact size and USB interface make it versatile for various setups.

This manual provides essential information for the safe and efficient use of your motion sensor switch, including specifications, setup instructions, operating guidelines, maintenance tips, and troubleshooting advice.

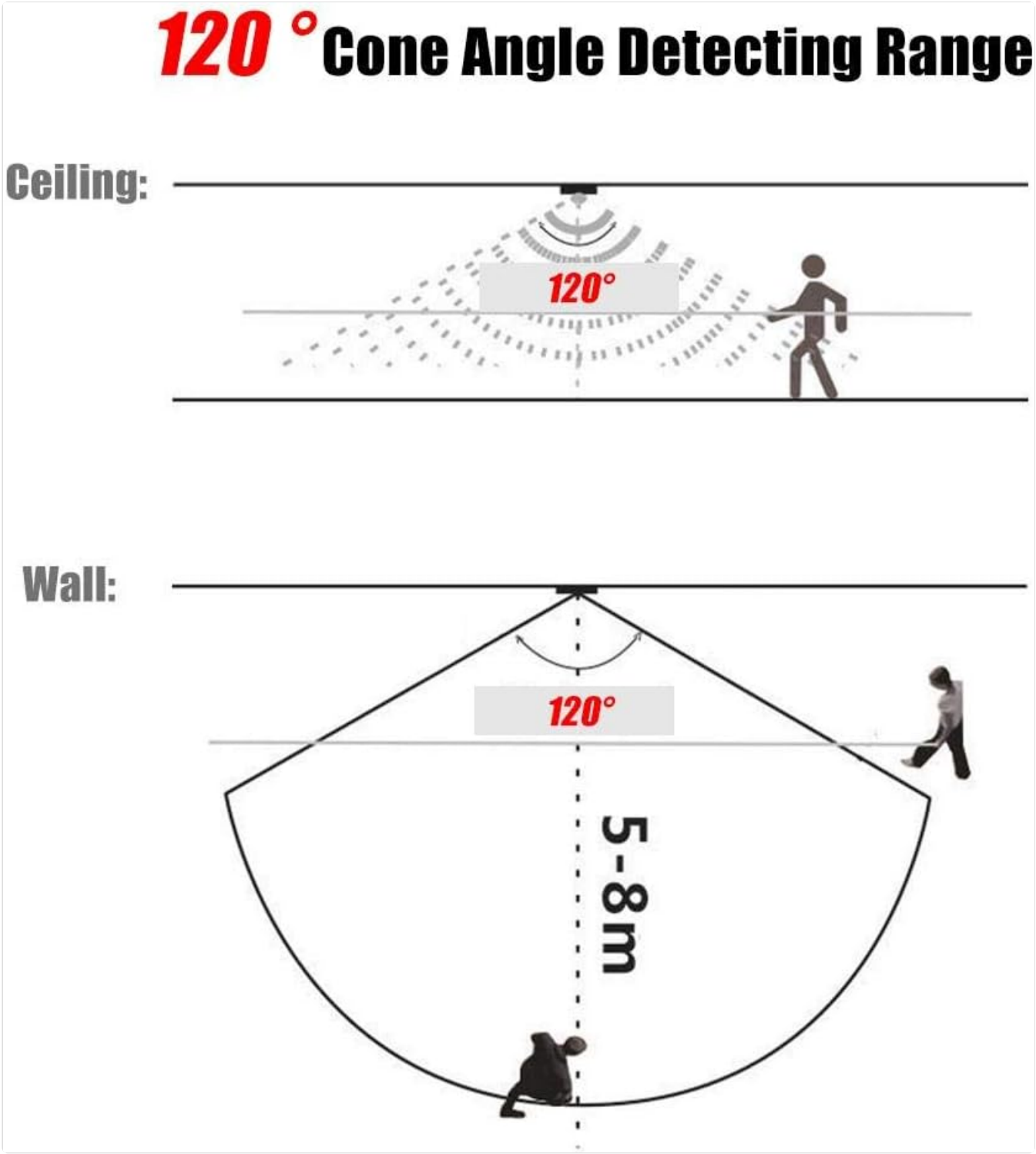

Figure 1: Heayzoki Mini PIR Motion Sensor Switch with USB input and output cables.

2. Specifications

Refer to the table below for detailed technical specifications of the Heayzoki Mini PIR Motion Sensor Switch.

Feature	Specification
Operating Voltage	5V-24V DC

Feature	Specification
Output Current	5A
Operating Temperature	-15°C ~ 38°C
Function	Human body infrared sensor switch
Quiescent Current	<50uA
Trigger Mode	Continuous trigger
Output Mode	Inductive output
Detection Distance	5-7 meters
Detection Angle	120 degrees
Induction Mode	Passive
Time Range	Default 15s, adjustable
Product Dimensions	5 x 2.6 x 2.2 cm (1.97 x 1.02 x 0.87 inches)
Power Supply	Via mobile phone charger, power bank, computer, notebook (USB)
Color Options	White, Black
Model Number	Heayzokifdgxkw1e2i-02
ASIN	B08J3Z25Q7



Figure 2: Product label indicating model, voltage, and current specifications.

3. Key Features

- **PIR Motion Detection:** Detects human movement by sensing infrared radiation emitted by the human body.
- **Wide Detection Range:** Features a 120-degree cone angle detection range with a distance of 5-7 meters.
- **Energy Saving:** High and stable sensitivity helps save energy and improve efficiency by activating only when needed.
- **Intelligent Delay:** Automatically delays shutdown after a person leaves the detection area. The default delay is 15 seconds and is adjustable.
- **Versatile Power Supply:** Conveniently powered via USB interface from mobile phone chargers, power banks, computers, or notebooks. Output voltage matches input voltage.
- **Temperature Compensation:** Built-in temperature compensation chip reduces the impact of environmental temperature changes on detection accuracy.
- **Broad Application:** Ideal for motion-activated lighting in corridors, bathrooms, basements, warehouses, garages, and other areas.

4. Setup Instructions

Follow these steps to set up your Heayzoki Mini PIR Motion Sensor Switch:

1. **Choose a Location:** Select a suitable location for the sensor, considering its 120-degree detection angle and 5-7 meter range. It can be mounted on a wall or ceiling. Ensure there are no obstructions that might block the sensor's view.
2. **Connect Power Input:** Connect the USB **input** cable (male USB-A connector) of the sensor to a compatible 5V-24V DC USB power source, such as a mobile phone charger, power bank, computer USB port, or notebook USB port.
3. **Connect Output Device:** Connect your LED strip or other compatible DC 5V-24V device to the USB **output** port (female USB-A connector) of the sensor. Ensure the device's power requirements match the sensor's output capabilities (up to 5A).
4. **Secure Mounting (Optional):** If permanent installation is desired, use the provided screws to mount the sensor securely.



Figure 3: Detail of the USB input and output connections for power and device integration.

5. Operating Instructions

Once properly set up, the Heayzoki Mini PIR Motion Sensor Switch operates automatically:

- **Automatic Detection:** The sensor will continuously monitor its detection area for human movement. When movement is detected, the connected device (e.g., LED strip) will automatically turn on.
- **Delay Timer:** After movement ceases, the connected device will remain on for a default period of 15 seconds. If movement is detected again within this delay period, the timer will reset, and the device will stay on.
- **Adjustable Delay:** The delay time is adjustable. Refer to the product's specific instructions or markings for how to modify this setting if available.
- **Detection Range and Angle:** The sensor has a 120-degree cone angle detection and a range of 5-7 meters. Optimal performance is achieved when movement occurs across the sensor's field of view rather than directly towards it.



Figure 4: Illustration of the sensor's 120-degree detection cone and range for different mounting positions.

6. Maintenance

To ensure optimal performance and longevity of your motion sensor switch, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the sensor lens and housing with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as these can damage the device.
- **Clear Obstructions:** Periodically check that the sensor's detection area is free from obstructions such as furniture, plants, or curtains that could block its view.
- **Environmental Conditions:** Ensure the sensor is not exposed to extreme temperatures, direct sunlight, or high humidity, which can affect its performance and lifespan. The operating temperature range is -15°C to 38°C.

7. Troubleshooting

If you encounter issues with your Heayzoki Mini PIR Motion Sensor Switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not turn on when motion is detected.	• No power to the sensor. • Device not properly connected to the sensor's output. • Sensor lens is obstructed or dirty. • Movement is outside the detection range/angle.	• Check USB power input connection and power source. • Ensure the output device is securely plugged into the sensor. • Clean the sensor lens and remove any obstructions. • Adjust sensor placement to cover the desired area.
Device stays on continuously or turns off too quickly.	• Continuous motion in the detection area. • Delay time setting is incorrect (if adjustable). • Sensor malfunction.	• Ensure the area is clear of constant movement after activation. • If the delay is adjustable, verify the setting. • If the problem persists, contact customer support.
Sensor is overly sensitive or not sensitive enough.	• Environmental factors (e.g., drafts, heat sources). • Placement of the sensor.	• Avoid placing the sensor near heat vents, windows, or areas with significant air currents. • Adjust the sensor's position to optimize detection.

8. Warranty and Support

For warranty information or technical support, please refer to the documentation provided at the time of purchase or

contact your retailer. Keep your purchase receipt as proof of purchase.
For further assistance, you may visit the Heayzoki brand page on Amazon.

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