### Diyeeni Diyeeniimx8vn0s5g

# Diyeeni Photocell Switch Instruction Manual

Model: Diyeeniimx8vn0s5g

## 1. Product Overview

The Diyeeni Photocell Switch is an automatic lighting control device designed to activate or deactivate lighting based on ambient illumination levels. It features a three-wire system for compatibility and offers energy-saving benefits, extended operational life, and reliable performance. This switch is ideal for applications requiring automatic light switching in low visibility conditions, such as outdoor lighting, LED installations, and monitoring systems.


**Figure 1.1:** Photocell switch integrated into an outdoor lighting setup, demonstrating its application in automatic light control for LED lighting, outdoor monitoring, and garden lights.

## Key Features:

- Automatic illumination detection circuit for dusk-to-dawn operation.
- Energy-saving design with long operational life.
- Three-wire system for broad compatibility.
- Suitable for LED lighting and various outdoor automatic switching applications.


**Figure 1.2:** Detailed view of the mini light switching sensor, highlighting its compact design and the integrated photocell for automatic light detection. This sensor is designed for energy efficiency, long life, and reliable performance.

## 2. Setup and Installation

Proper installation is crucial for the optimal performance and safety of your photocell switch. Please follow these instructions carefully.

### 2.1 Wiring Instructions

The photocell switch utilizes a three-wire system. Ensure all power is disconnected before attempting any wiring.


**Figure 2.1:** This image displays the wiring diagram and physical dimensions of the photocell switch. The label indicates connections for Red (Load), White (Line), and Black (Line). Dimensions are approximately 40mm (length) x 15.6mm (width) x 20mm (height).

- **Red Wire:** Connect to the Load (e.g., light fixture).
- **White Wire:** Connect to the Neutral Line.
- **Black Wire:** Connect to the Live Line.

The leads length is approximately 150mm.

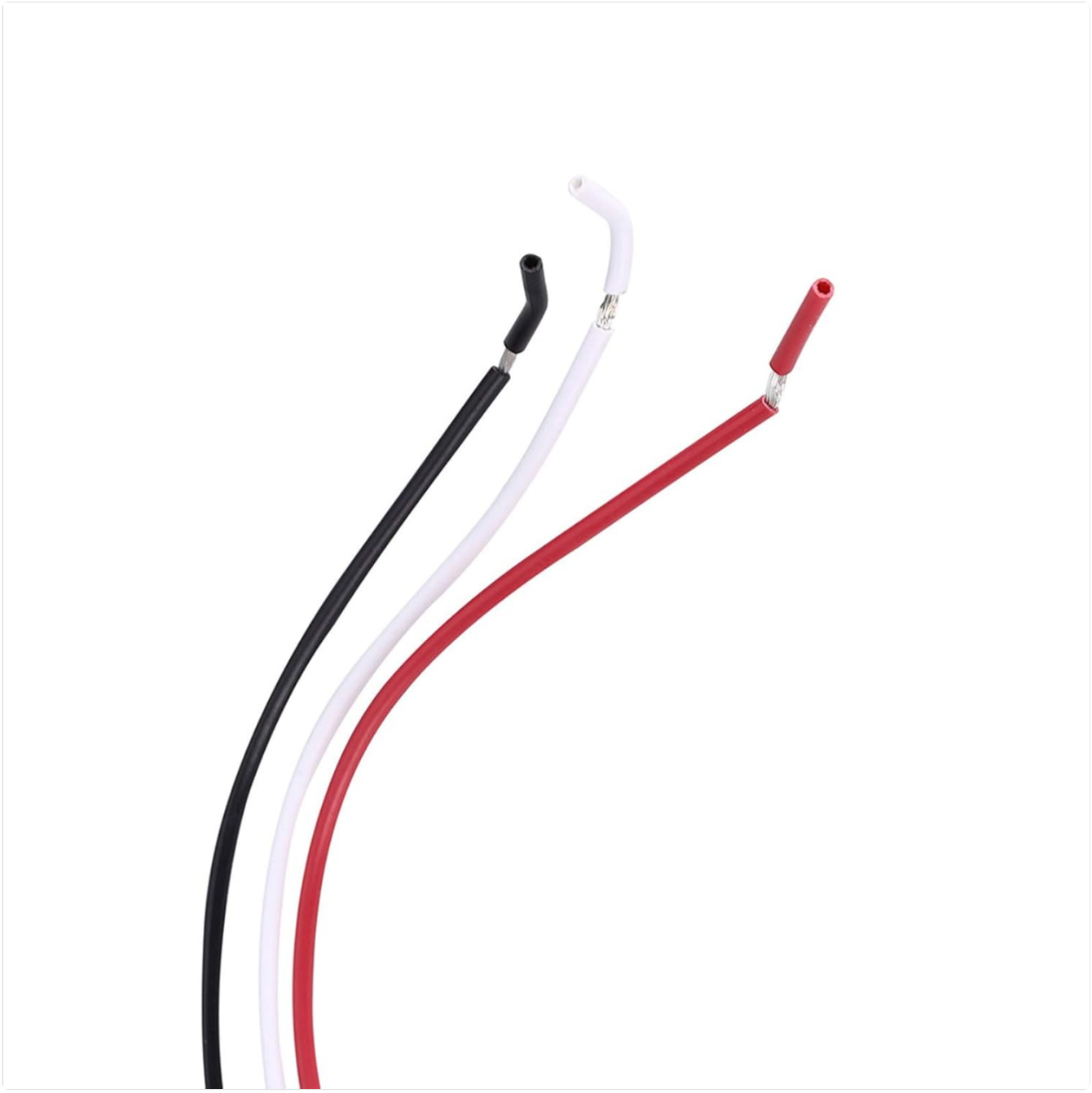

**Figure 2.2:** A close-up view of the red, white, and black wires extending from the photocell switch, illustrating the three-wire system for electrical connection.

## 2.2 Mounting

The photocell switch is designed for wall mount installation. Ensure the sensor is positioned where it can accurately detect ambient light without obstruction from artificial light sources or shadows.

## 2.3 Environmental Considerations

- The device has an International Protection Rating of IP66, indicating it is dust-tight and protected against powerful water jets.
- Operating environment temperature range: -25°C to 70°C (-13°F to 158°F).
- Avoid installation in corrosive gas environments.

## 2.4 Product Variations

Please note that both new and old types of this product may be shipped. Functionality remains consistent across both versions.

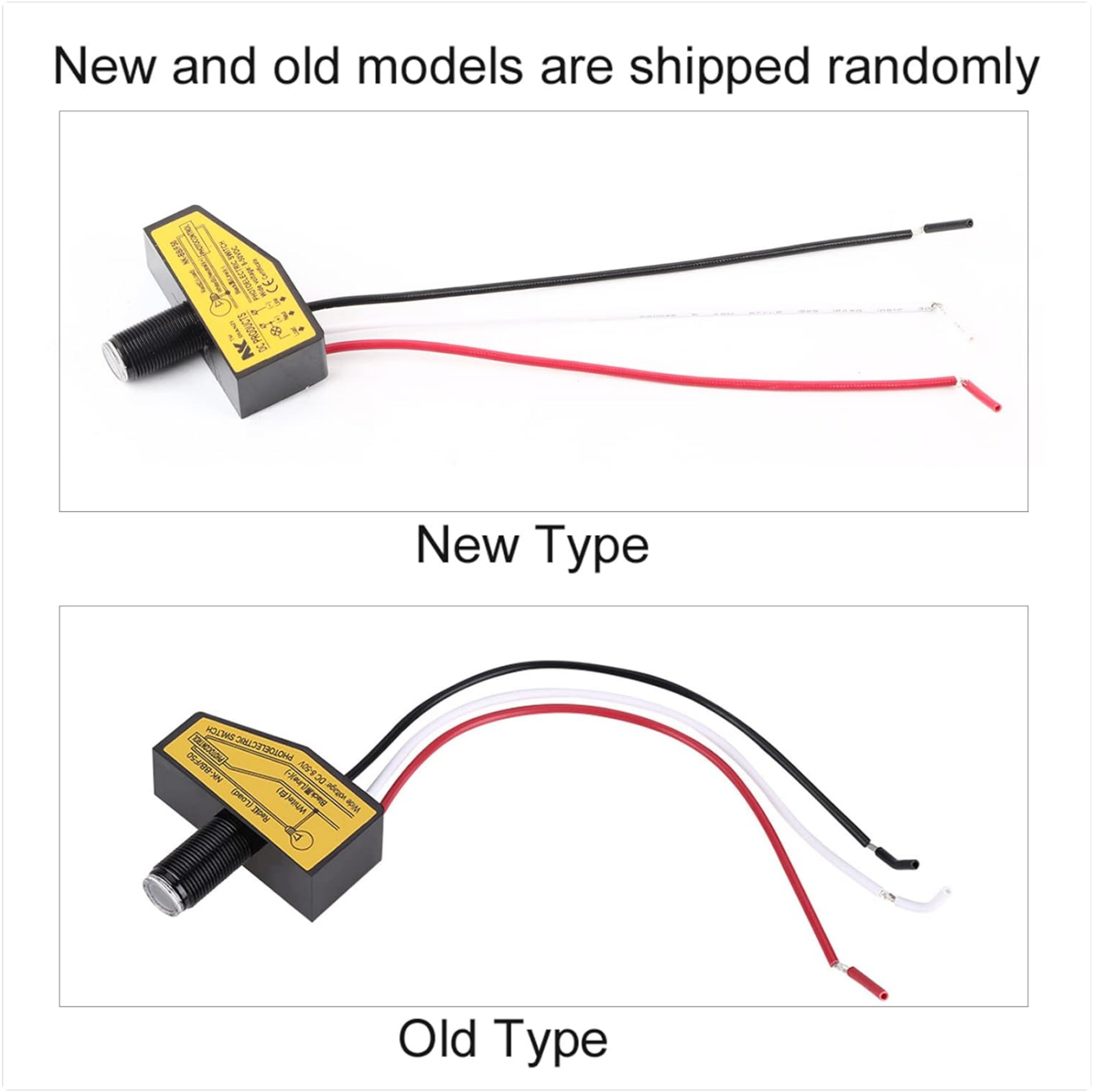


**Figure 2.3:** This image shows a comparison between the 'New Type' and 'Old Type' models of the photocell switch, illustrating minor aesthetic differences while maintaining core functionality.

## 3. Operating Instructions

The Diyeeni Photocell Switch operates automatically based on ambient light conditions.

### 3.1 Automatic Operation

- The switch will automatically turn **ON** when the ambient light level falls between 5-10 Lux (LX).
- The switch will automatically turn **OFF** when the ambient light level rises between 30-60 Lux (LX).
- An anti-interference delay of approximately 0.6 seconds is built-in to prevent rapid switching due to momentary light fluctuations.

### 3.2 Control Method

The device is listed with a 'Remote' control method and 'Wi-Fi' connectivity protocol. For specific details on remote control functionality or Wi-Fi setup, please refer to additional product documentation or contact customer support.

## 4. Maintenance

The Diyeeni Photocell Switch is designed for long-term, reliable operation with minimal maintenance.

### 4.1 General Care

- Periodically inspect the sensor lens for dirt, dust, or obstructions. Clean gently with a soft, dry cloth if necessary.
- Ensure the wiring connections remain secure and free from corrosion.
- Avoid exposing the device to harsh chemicals or abrasive materials.

### 4.2 Expected Lifespan

The working life of the photocell switch is rated for approximately 6500 cycles.

## 5. Troubleshooting

If you encounter issues with your photocell switch, refer to the following common problems and solutions.

| Problem | Possible Cause | Solution |
|---|---|---|
| Light does not turn ON at dusk. | Insufficient darkness detected; sensor obstructed; power issue; faulty wiring. | Ensure sensor is not exposed to artificial light. Check for physical obstructions on the sensor. Verify power supply and wiring connections. |
| Light does not turn OFF at dawn. | Insufficient light detected; sensor obstructed; faulty wiring. | Ensure sensor is exposed to natural daylight. Check for physical obstructions on the sensor. Verify wiring connections. |
| Light flickers or cycles rapidly. | Momentary light fluctuations; sensor interference. | The built-in anti-interference delay should mitigate this. If persistent, check for external light sources causing rapid changes near the sensor. |
| No power to the switch. | Power supply issue; incorrect wiring. | Check the circuit breaker. Verify all wiring connections are correct and secure. |

## 6. Specifications

Detailed technical specifications for the Diyeeni Photocell Switch.

**Figure 6.1:** Side profile of the photocell switch, showing its compact form factor and the entry point for the three-wire system.

| Feature | Specification |
|---|---|
| Model Number | Diyeeniimx8vn0s5g |
| Operation Mode | Automatic (Dusk to Dawn) |
| Voltage Range | 12V, 24V, 36V, 48V DC |
| Supply Voltage (Operating) | 8V to 50V DC |
| Current Rating | 5 Amps (Load Current) |
| Standby Current | 0.5mA (silent state) |
| Power Consumption | 0.6W maximum |
| Anti-interference Delay | Approximately 0.6 seconds |

| Feature | Specification |
| --- | --- |
| Sensitivity (ON) | 5-10 Lux (LX) |
| Sensitivity (OFF) | 30-60 Lux (LX) |
| Environment Temperature | -25°C to 70°C (-13°F to 158°F) |
| Related Humidity | 99% RH |
| Working Life | 6500 cycles |
| Detector Grade (IP Rating) | IP66 |
| Mounting Type | Wall Mount |
| Control Method | Remote |
| Connectivity Protocol | Wi-Fi |
| Leads Length | 150mm |
| Product Size (L x W x H) | 40 x 15.6 x 20 mm (1.57" x 0.61" x 0.79") |
| Item Weight | 0.704 ounces |
| Material | Photocell |

**Figure 6.2:** Front view of the photocell switch, showing the light-sensing element and the threaded collar for secure mounting.

## 7. Warranty and Support

For warranty information, technical support, or any inquiries regarding your Diyeeni Photocell Switch, please refer to the product packaging or contact Diyeeni customer service directly. Contact details can typically be found on the manufacturer's website or through your point of purchase.