Solus SPC-320

Solus SPC-320 Dusk-to-Dawn Photocell Sensor

Outdoor Photocell Sensor with Ezee Change Plug for 3" Lamp Posts

Introduction

The Solus SPC-320 Dusk-to-Dawn Photocell Sensor is designed to automate the operation of your outdoor lighting. This sensor detects ambient light levels, automatically turning your light fixture on at dusk and off at dawn, providing convenience and energy efficiency. It features an Ezee Change Plug for simplified replacement and is suitable for 3-inch lamp posts.

Safety Information

- Always disconnect power at the circuit breaker before installation or servicing.
- Installation should be performed by a qualified electrician or in accordance with local electrical codes.
- Ensure all wire connections are secure and properly insulated.
- Do not immerse the photocell sensor in water.
- Verify the voltage and wattage ratings of your fixture are compatible with the sensor.

Parts Included

- Photocell Photo Control Light Sensor
- Light Shield (optional)
- Mounting Screws
- Wire Nuts

Figure 1: Components included with the Solus SPC-320 Photocell Sensor.

Specifications

Specification	Value
Model	SPC-320
Operation Mode	Automatic (Dusk-to-Dawn)

Operating Voltage	120 Volts
Max Incandescent Wattage	300W
Max LED Wattage	60W
Max Fluorescent Wattage	39W
Max HID Wattage	100W
Mounting Type	Post Mount (for 3" lamp posts with 1.375" diameter mounting hole)
Connector Type	Plug-In (Ezee Change Plug)
Certifications	UL Listed
Material	Plastic, Copper, Brass

Figure 2: Sensor dimensions, highlighting the 1 3/8" diameter for mounting.

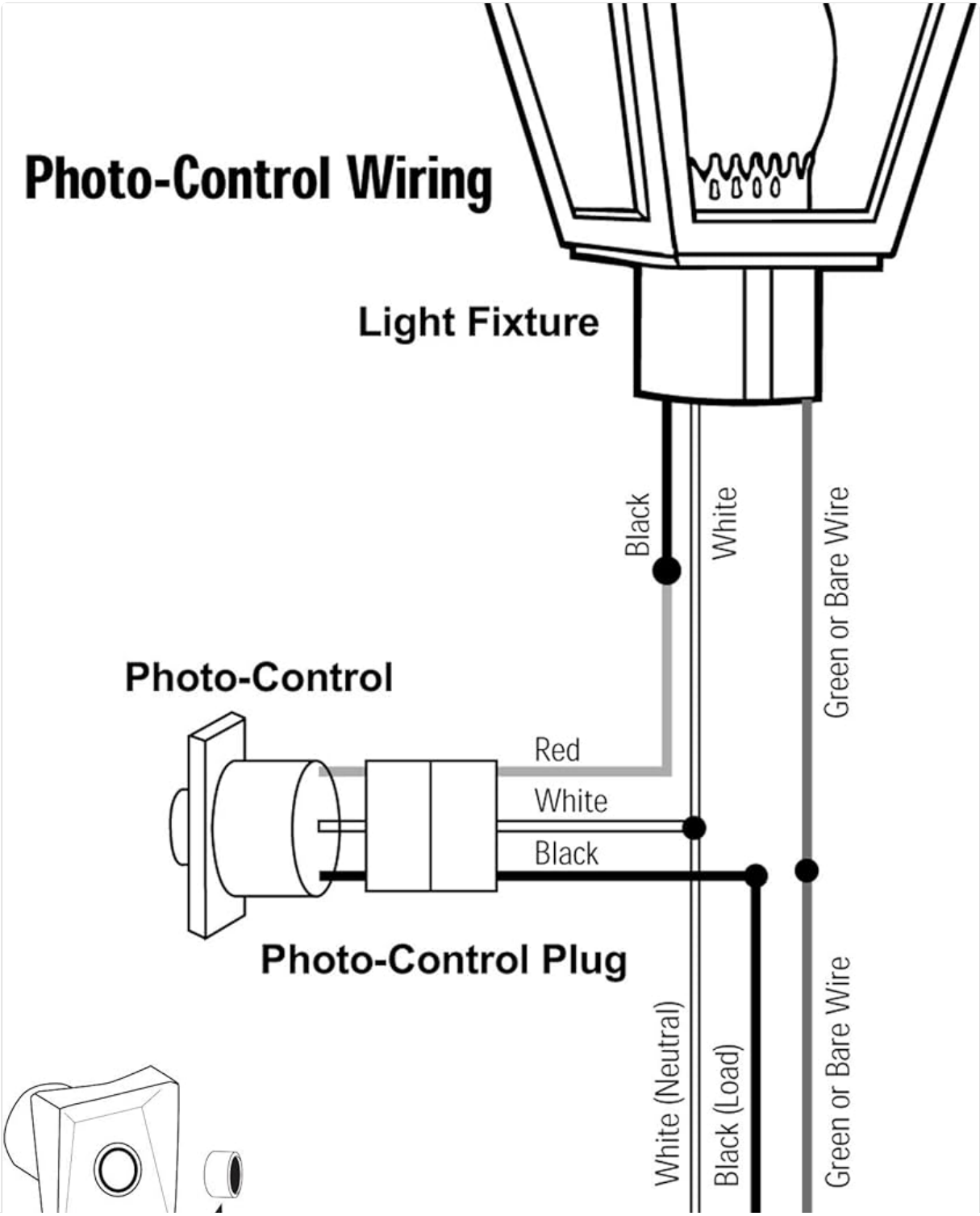
Installation Instructions

This sensor is designed for easy installation into 3-inch lamp posts with a 1.375-inch diameter mounting hole. The Ezee Change Plug simplifies future replacements.

1. **Disconnect Power:** Before beginning any installation, ensure power to the lamp post is turned off at the circuit breaker.
2. **Prepare Mounting Location:** If replacing an existing sensor, carefully remove the old unit. Ensure the mounting hole in the lamp post is approximately 1.375 inches (1 3/8 inches) in diameter.
3. **Wire Connections:** The sensor comes with an Ezee Change Plug and a wiring harness. If your existing setup does not have this plug, you will need to hardwire the harness first. Refer to the wiring diagram below for correct connections. Use the provided wire nuts to secure connections.
   - Connect the **red wire** from the photo-control to the**black wire of the light fixture**.
   - Connect the **black wire** from the photo-control to the**black (supply) wire**.

- Connect **all white wires together** (neutral).
- Connect **green or bare wires together** (ground).

4. **Connect Sensor:** Once the harness is wired, plug the photocell sensor into the Ezee Change Plug connector.
5. **Mount Sensor:** Insert the sensor into the mounting hole on the lamp post. Secure it using the provided mounting screws. Ensure the sensor face is unobstructed and points towards an open sky area for optimal light detection.
6. **Optional Light Shield:** If the sensor is exposed to direct artificial light sources at night (e.g., streetlights, porch lights) that might interfere with its operation, install the optional light shield to prevent premature turn-off.
7. **Restore Power:** Once installation is complete and all connections are secure, restore power at the circuit breaker.



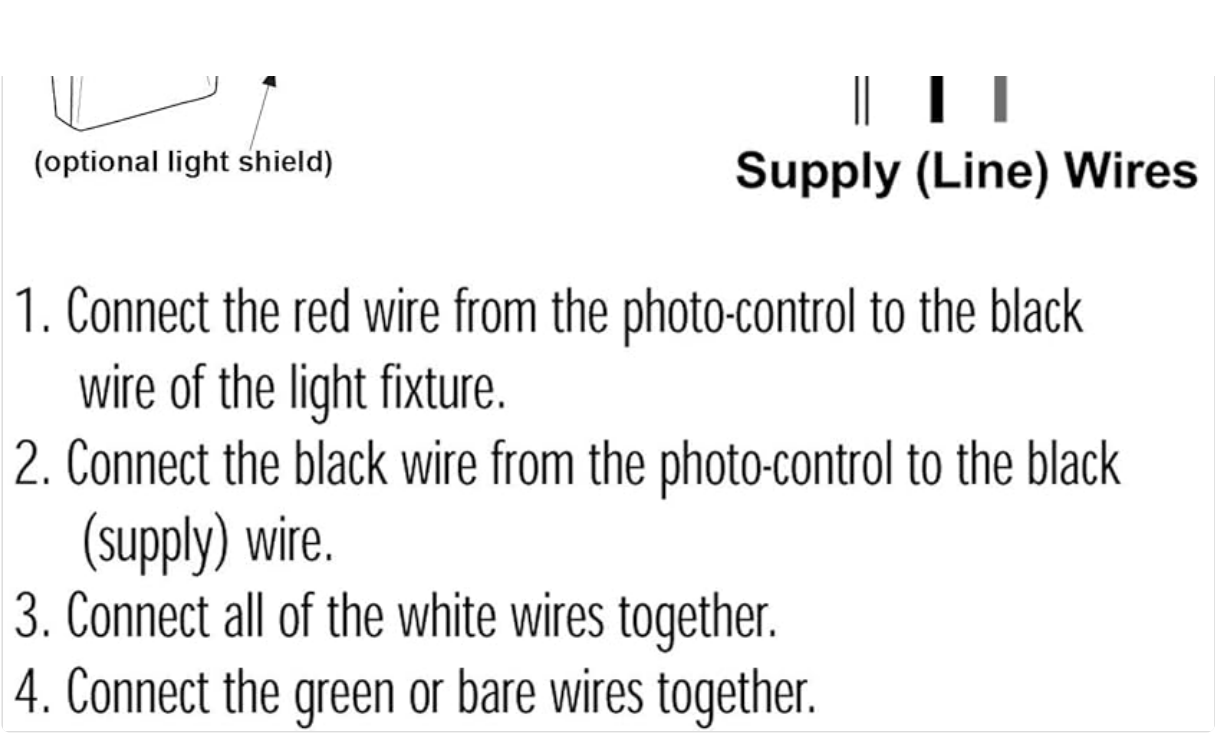


Figure 3: The Ezee Change Plug allows for quick and easy sensor replacement.

Wiring Diagram

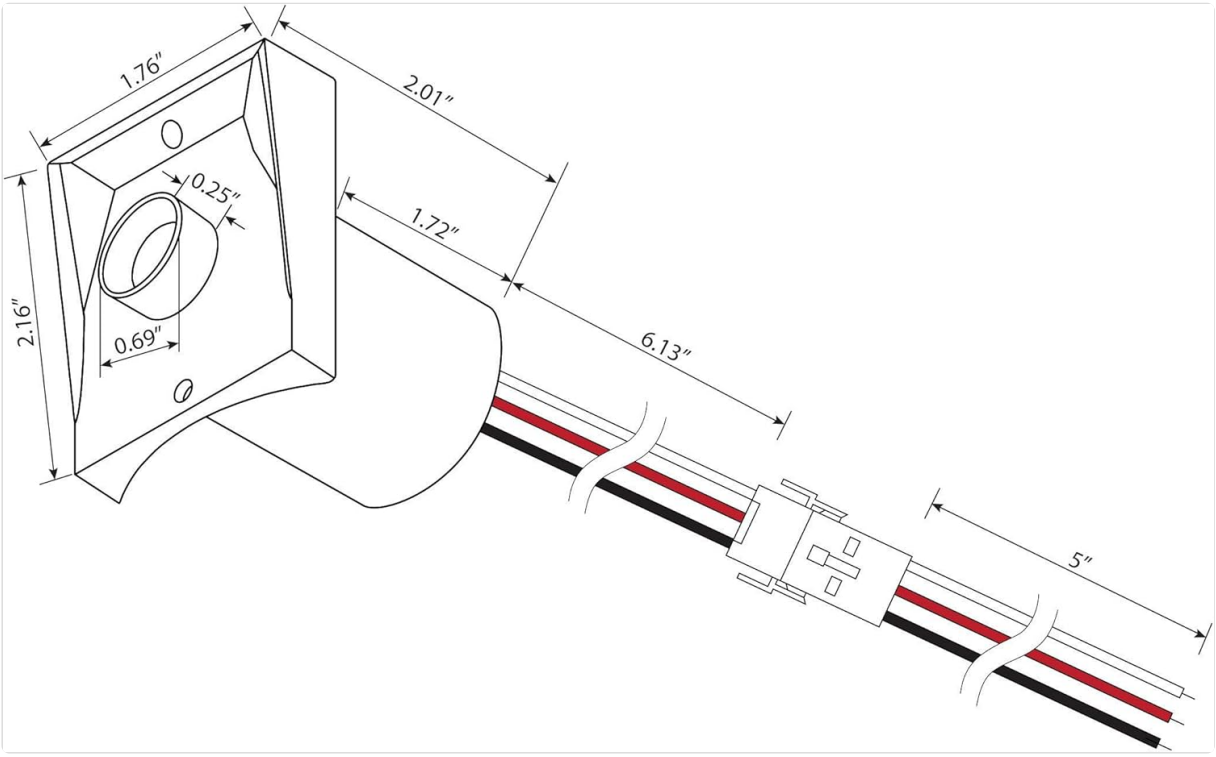


Figure 4: Wiring connections for the Solus Photocell Sensor.

Operation

Once installed and powered, the Solus SPC-320 Photocell Sensor will operate automatically. The built-in photocell detects the absence of sufficient natural light at dusk and activates the connected light fixture. Conversely, at dawn, when sufficient natural light is detected, the sensor will deactivate the light fixture. No manual intervention is required.

The sensor is compatible with various lighting types, including incandescent (up to 300W), LED (up to 60W), fluorescent (up to 39W), and HID (up to 100W) fixtures, making it versatile for residential and commercial applications.

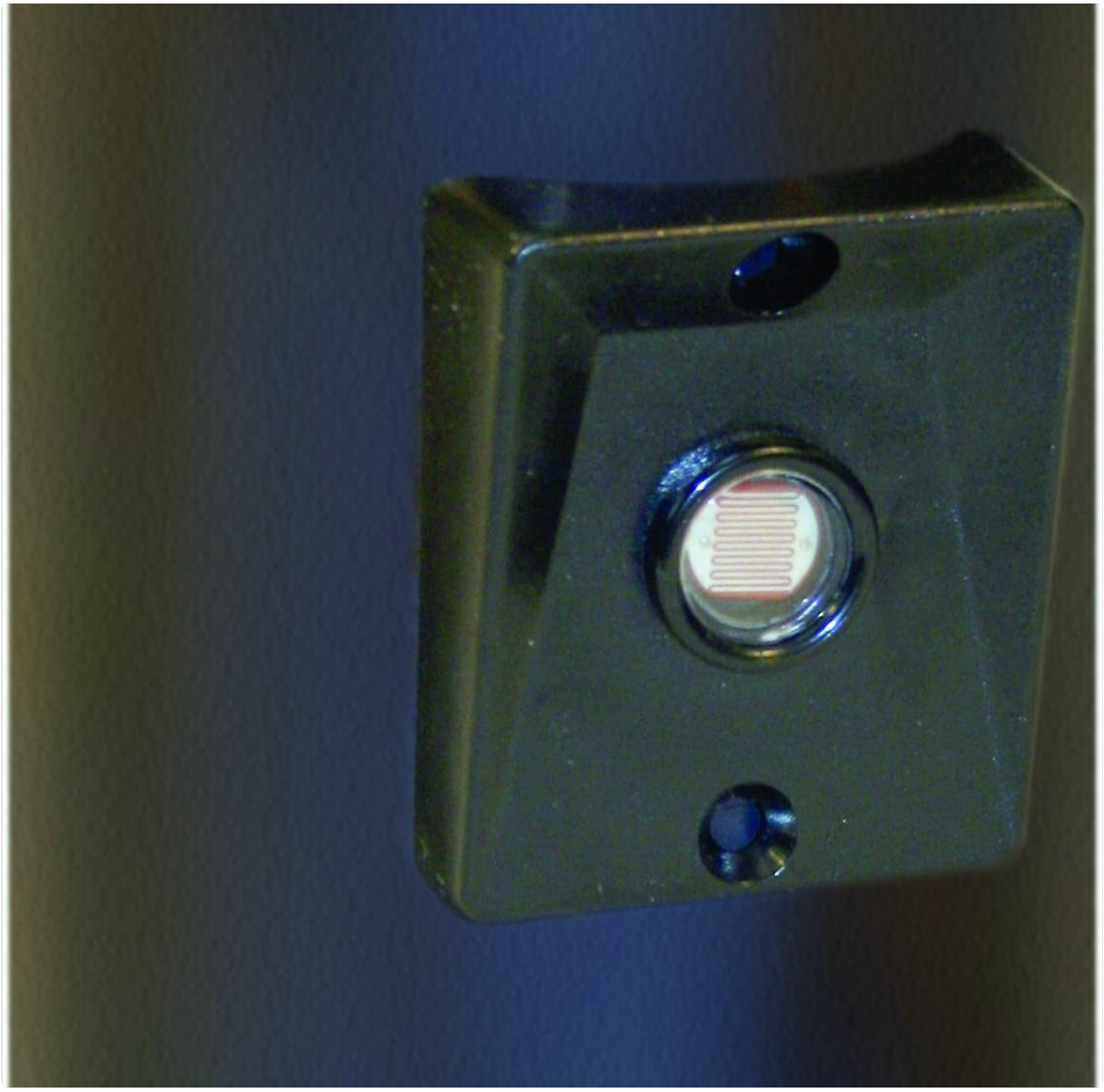


Figure 5: The Solus Photocell Sensor automatically illuminates outdoor lighting at dusk.

Maintenance

The Solus SPC-320 Photocell Sensor requires minimal maintenance. Periodically inspect the sensor's face to ensure it is clean and free from dirt, debris, or obstructions that could interfere with light detection. Gently wipe the sensor with a soft, damp cloth if cleaning is necessary. Do not use abrasive cleaners.

Warranty

The Solus SPC-320 Dusk-to-Dawn Photocell Sensor is backed by a 5-year warranty, providing peace of mind regarding its quality and durability.

Figure 6: Solus 5-Year Guarantee.