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## Design House 588079

# Design House 588079 Stem Mount 120-Volt Outdoor Aluminum Photocontrol

Model: 588079 | Brand: Design House

## 1. PRODUCT OVERVIEW

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The Design House 588079 Stem Mount Photocontrol is an outdoor, 120-volt device designed for automatic lighting control. It features a built-in daylight sensor that activates connected lighting at dusk and deactivates it at dawn, providing energy-efficient operation for commercial and residential applications. Constructed from durable aluminum, this photocontrol is UL listed for wet locations and is Title 2 compliant.



Image 1.1: Example of outdoor lighting application controlled by a photocontrol.

## 2. SAFETY INFORMATION

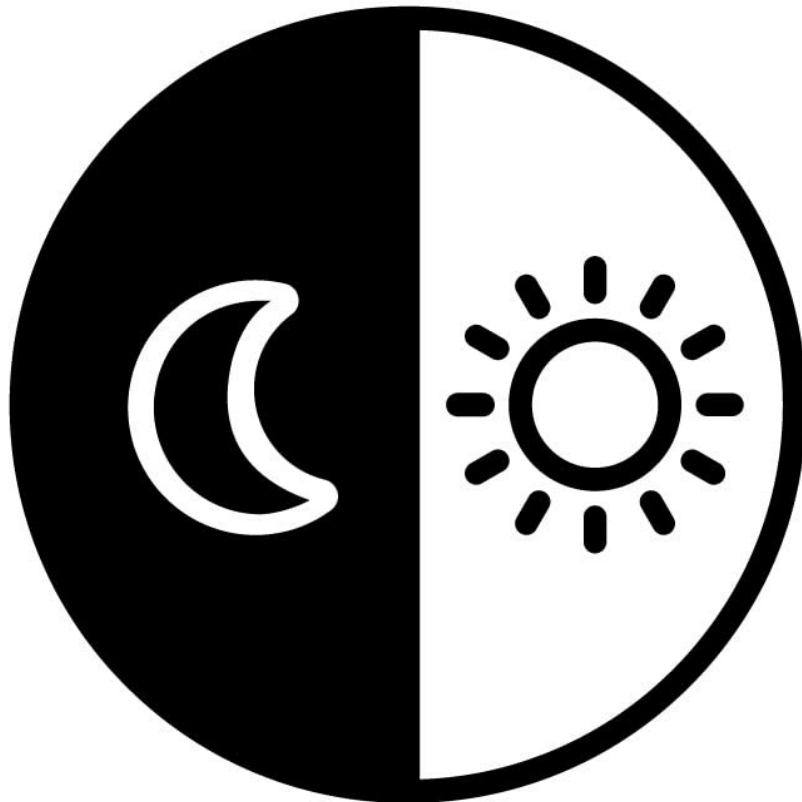
**WARNING: Risk of Electric Shock. Turn off power at the circuit breaker or fuse box before installation or servicing. Improper installation can result in serious injury or death.**

- Always ensure the main power supply is disconnected before attempting any electrical work.
- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
- Do not exceed the specified voltage and wattage ratings.
- Ensure all wire connections are secure and properly insulated.
- This device is suitable for wet locations. Ensure all outdoor enclosures are properly sealed after installation.

## 3. SPECIFICATIONS

Feature	Detail
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Model Number	588079
Construction Material	Aluminum
Voltage	120V
Wattage (Tungsten)	2000W
Wattage (Ballast)	2000VA
Dimensions (H x W x D)	3.5 inches x 2 inches x 1.5 inches
Item Weight	5.9 ounces
Location Rating	UL Listed for Wet Locations



DUSK ON / DAWN OFF

Image 3.1: Product dimensions for the Design House 588079 Photocontrol.

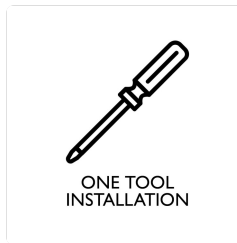


Image 3.2: Indication of suitability for wet locations.

## 4. SETUP AND INSTALLATION

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This photocontrol is designed for stem mounting and hard-wired electrical connections. Professional installation is recommended.

### 4.1 Tools Required

- Screwdriver (for mounting and wiring connections)
- Wire strippers
- Electrical tape or wire nuts



Image 4.1: The photocontrol is designed for straightforward installation.

### 4.2 Wiring Instructions

Before beginning, ensure power is OFF at the circuit breaker.

1. **Black Wire:** Connect the black wire from the photocontrol to the 120V LINE (hot) wire from the power source.
2. **White Wire:** Connect the white wire from the photocontrol to the NEUTRAL wire from the power source and to the neutral wire of the light fixture.
3. **Red Wire:** Connect the red wire from the photocontrol to the LOAD (hot) wire of the light fixture.
4. Secure all connections with appropriate wire nuts and electrical tape.



Image 4.2: Illustration of hard-wired electrical connection.

### 4.3 Mounting

Mount the photocontrol in a location where it will receive unobstructed natural light throughout the day. Avoid areas where artificial light sources (e.g., streetlights, porch lights) might shine directly onto the sensor, as this could interfere with its operation.

## 5. OPERATING INSTRUCTIONS

The Design House 588079 Photocontrol operates automatically based on ambient light levels.

- **Dusk Activation:** When the ambient light level drops below a certain threshold (typically at dusk), the photocontrol will automatically turn on the connected lighting.
- **Dawn Deactivation:** When the ambient light level rises above a certain threshold (typically at dawn), the photocontrol will automatically turn off the connected lighting.
- **Time Delay:** The photocontrol incorporates a time delay feature to prevent false triggering from transient light changes (e.g., car headlights, lightning flashes). This means there will be a slight delay (typically a few seconds to a couple of minutes) between the change in light level and the activation or deactivation of the lights.

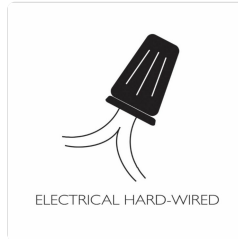


Image 5.1: Visual representation of the dusk to dawn operation.

## 6. MAINTENANCE

The Design House 588079 Photocontrol requires minimal maintenance.

- **Cleaning:** Periodically inspect the photocontrol sensor for any dirt, dust, or debris that may obstruct the light sensor. Gently clean the sensor surface with a soft, damp cloth. Do not use abrasive cleaners.
- **Inspection:** Annually inspect the wiring connections and the housing for any signs of wear, damage, or corrosion. Ensure the mounting is secure.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on at dusk.	No power, faulty wiring, sensor obstructed, sensor exposed to artificial light.	Check circuit breaker. Verify wiring connections. Clean sensor. Relocate photocontrol away from artificial light sources.
Lights do not turn off at dawn.	Sensor obstructed, sensor exposed to artificial light.	Clean sensor. Relocate photocontrol away from artificial light sources.
Lights flicker or cycle on/off rapidly.	Interference from nearby light, faulty connection.	Ensure sensor is not exposed to intermittent light. Check wiring connections for looseness.

## 8. WARRANTY AND SUPPORT

This Design House 588079 Photocontrol is covered by a **5-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.



Image 8.1: The product is backed by a 5-year limited warranty.

For warranty claims, technical support, or further assistance, please contact Design House customer service. Keep your proof of purchase for warranty validation.