Tork RKP303

Tork RKP303 Dusk-to-Dawn Mini-Button Photocontrol User Manual

Model: RKP303

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Tork RKP303 Dusk-to-Dawn Mini-Button Photocontrol. This device is designed to automatically turn lights ON at dusk and OFF at dawn, providing energy savings and convenience for outdoor lighting applications.

2. Safety Information

WARNING: Risk of Electric Shock or Fire.

- Always disconnect power at the circuit breaker or fuse before installing or servicing this device.
- Installation must be performed by a qualified electrician in accordance with all national and local electrical codes.
- Do not exceed the maximum electrical ratings of the photocontrol.
- Ensure all wire connections are secure and properly insulated.
- This device is intended for outdoor use in appropriate enclosures.

3. Product Overview

The Tork RKP303 is a compact, mini-button photocontrol designed for easy integration into outdoor lamp posts and fixtures. It features a light-sensitive cell that detects ambient light levels to control connected lighting.



Figure 3.1: Front view of the RKP303 photocontrol, showing the light sensor and attached wires.



Figure 3.2: Back view of the RKP303 photocontrol, displaying the product label with electrical ratings and wiring information.

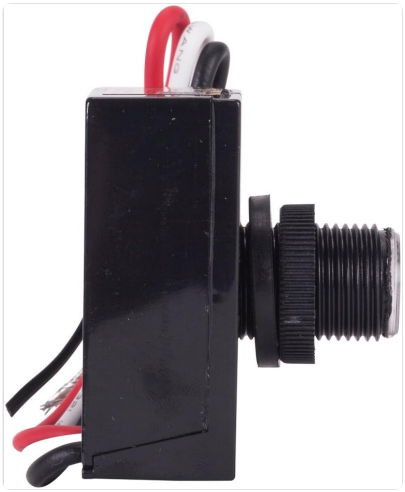


Figure 3.3: Side view of the RKP303 photocontrol, highlighting the threaded shaft for mounting.

Components:

- **Photocontrol Unit:** The main body containing the light sensor and internal circuitry.
- **Threaded Mounting Shaft:** For securing the unit into a 7/16 inch mounting hole.
- **Wire Leads:** Pre-stripped wires for electrical connection.

4. Setup and Installation

Before beginning installation, ensure power is disconnected at the circuit breaker.

4.1 Mounting:

1. Identify a suitable location on your outdoor lamp post or fixture that has a 7/16 inch mounting hole. The photocontrol sensor should have unobstructed exposure to natural light.
2. Insert the threaded shaft of the photocontrol into the mounting hole.
3. Secure the photocontrol in place using the provided nut, tightening it firmly but without overtightening.

4.2 Wiring:

The RKP303 photocontrol typically comes with three color-coded wire leads:

- **Black Wire:** Line (Input Power)
- **White Wire:** Neutral
- **Red Wire:** Load (Output to Light Fixture)

Follow these steps for wiring:

1. Connect the **Black wire** from the photocontrol to the incoming 120VAC Line (hot) wire from your power source.
2. Connect the **White wire** from the photocontrol to the incoming Neutral wire from your power source and also to the Neutral wire of your light fixture.
3. Connect the **Red wire** from the photocontrol to the Line (hot) wire of your light fixture.
4. Use appropriate wire connectors (e.g., wire nuts) for all connections and ensure they are secure and insulated.
5. Once wiring is complete, carefully tuck all wires into the fixture or junction box.

After installation, restore power at the circuit breaker. The light may take up to 2 minutes to turn off if installed during daylight hours, allowing the internal time delay to activate.

5. Operating Instructions

The Tork RKP303 photocontrol operates automatically based on ambient light levels. There are no user-adjustable settings.

- **Dusk Operation:** As natural light diminishes at dusk, the photocontrol will sense the decrease in light and automatically turn ON the connected lighting.
- **Dawn Operation:** As natural light increases at dawn, the photocontrol will sense the increase in light and automatically turn OFF the connected lighting.
- **Time Delay:** The unit incorporates a time delay (typically up to 2 minutes) to prevent false switching due to transient light changes like car headlights or lightning.

6. Maintenance

The Tork RKP303 photocontrol is designed for maintenance-free operation. No user-serviceable parts are inside.

- Keep the photocontrol's light sensor clean and free from obstructions (e.g., dirt, leaves, snow) to ensure proper operation. Use a soft, damp cloth for cleaning if necessary.
- Do not paint over the light sensor.

7. Troubleshooting

Problem	Possible Cause	Solution
Light stays ON during the day.	Sensor is obstructed or in a shaded area. External light source (e.g., another light fixture) is shining on the sensor. Wiring error.	Relocate the photocontrol or clear obstructions. Ensure no other light sources are directly illuminating the sensor. Verify wiring connections.
Light stays OFF at night.	No power to the unit. Faulty wiring. Photocell failure.	Check circuit breaker. Verify all wiring connections. If problem persists, the photocontrol may need replacement.
Light flickers or cycles rapidly.	Intermittent light source on sensor. Loose wiring connection.	Ensure sensor is not exposed to flickering lights. Check and secure all wire connections.

8. Specifications

Feature	Detail
Model Number	RKP303
Voltage	120VAC, 50/60Hz (as per product label)
Tungsten Rating	Max 1800W, 15A
Ballast Rating	Max 1100VA, 9.2A
Mounting Hole Size	7/16 inch
Dimensions	1.25 x 0.5 x 1.75 inches (approximate)
Weight	1.28 ounces (approximate)
Included Components	Time switch (photocontrol unit)
Country of Origin	China

9. Warranty and Support

For warranty information and technical support, please refer to the official Tork website or contact their customer service department. Keep your purchase receipt for warranty claims.

Tork Customer Support:

- Visit the Tork Store on Amazon for product information.
- Refer to the manufacturer's contact details provided with the product packaging.

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Question

Example: How do I reset this device or fix this error?

Details

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