PAL Lighting 64-PCR-3D-120

PAL 120W Multi Color Dual Zone Remote Control Transformer Instruction Manual

Model: 64-PCR-3D-120
Brand: PAL Lighting

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the PAL 120W Multi Color Dual Zone Remote Control Transformer (Model: 64-PCR-3D-120). This device is engineered to power and control multi-color LED lighting systems, offering advanced dual-zone functionality for versatile and dynamic lighting solutions in various applications.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to the product or property.

- Always disconnect power at the circuit breaker before installing, servicing, or performing any maintenance on the transformer or connected lighting.
- Installation must be performed by a qualified electrician and in accordance with all local and national electrical codes.
- Do not operate the transformer if it has been damaged in any way.
- Ensure the transformer is installed in a location that is protected from direct water exposure, although the unit is rated IP65 for dust and water jet protection.
- Verify that the supply voltage matches the transformer's specified input voltage (100-240V AC, 50/60Hz).
- Do not exceed the maximum output power of 120 Watts.

3. PACKAGE CONTENTS

Please verify that all items listed below are present and undamaged in your package:

- 1 x PAL 120W Multi Color Dual Zone Remote Control Transformer (Model: 64-PCR-3D-120)
- 1 x PAL PCZ-2 Color Touch 2 Zone Remote Control
- 2 x AAA Batteries (for remote control)

Image: The PAL 120W Multi Color Dual Zone Remote Control Transformer, its accompanying PCZ-2 remote control, and two AAA batteries. The transformer is a dark grey rectangular unit with connection ports on one side, and the remote is shown in its packaging next to it.

4. PRODUCT OVERVIEW

4.1. Transformer Unit (64-PCR-3D-120)

The main transformer unit is a robust, weather-resistant enclosure designed for outdoor or indoor installation. It converts standard AC line voltage to 24V DC, suitable for PAL LED lighting products. Key features include:

- **Input Voltage:** 100-240V AC, 50/60Hz
- **Supply Power:** 125 Watts
- **Output Power:** 120 Watts (24V DC)
- **IP Rating:** IP65 (Dust tight and protected against water jets)
- **Certifications:** CE, SELV

4.2. PCZ-2 Color Touch 2 Zone Remote Control

The PCZ-2 remote control allows for intuitive management of your connected LED lighting. It features a color touch wheel for precise color selection and dedicated buttons for controlling two independent lighting zones, brightness, and various lighting modes.

5. SETUP AND INSTALLATION

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

1. **Mounting:** Select a suitable, secure location for the transformer. Mount the unit vertically using appropriate fasteners, ensuring adequate ventilation around the enclosure.

2. **Input Wiring:** Connect the AC input power (100-240V AC) to the designated input terminals on the transformer. Ensure proper polarity (Live, Neutral, Ground) as indicated on the unit. Use appropriate gauge wiring for the power requirements.

3. **Output Wiring:** Connect your 24V DC PAL LED lighting fixtures to the output terminals. The transformer supports two independent zones. Ensure correct polarity (+ and -) for each lighting fixture. Refer to your lighting fixture's manual for specific wiring diagrams.

4. **Remote Control Batteries:** Open the battery compartment on the PCZ-2 remote control and insert the two AAA batteries, observing the correct polarity.

5. **Power On:** Once all connections are secure and verified, restore power at the circuit breaker.

6. OPERATING INSTRUCTIONS

6.1. Pairing the Remote Control

The PCZ-2 remote control should be pre-paired with the transformer. If pairing is lost or a new remote is introduced:

1. Ensure the transformer is powered on.
2. Within 5 seconds of powering on the transformer, press and hold the 'Zone 1 ON' button on the remote control for approximately 3 seconds. The connected lights should flash to confirm successful pairing.
3. Repeat for 'Zone 2 ON' button if you wish to pair the second zone.

6.2. Basic Remote Functions

- **Power ON/OFF:** Press the 'ON' or 'OFF' buttons for each zone to toggle power.
- **Color Selection:** Use the color touch wheel to select desired static colors.
- **Brightness Control:** Use the brightness up/down buttons to adjust the intensity of the selected color or mode.
- **Mode Selection:** Cycle through pre-programmed lighting modes (e.g., color changing, fading) using the 'Mode' button.
- **Zone Control:** Independently control Zone 1 and Zone 2 using their respective buttons.

7. MAINTENANCE

- **Cleaning:** Periodically clean the exterior of the transformer and remote control with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect wiring connections for any signs of wear, corrosion, or damage. Ensure all connections remain secure.

- **Battery Replacement:** Replace the AAA batteries in the remote control when its performance degrades or it stops responding.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to lights	No AC input power; Loose wiring; Faulty transformer	Check circuit breaker; Verify all wiring connections; Contact support if transformer is faulty.
Remote not responding	Dead batteries; Remote not paired; Obstruction	Replace batteries; Re-pair remote (see Section 6.1); Ensure clear line of sight.
Lights flickering or dim	Overloaded circuit; Loose connections; Faulty LED fixture	Reduce load (ensure total wattage is below 120W); Check wiring; Test individual fixtures.

9. SPECIFICATIONS

Feature	Specification
Model	64-PCR-3D-120
Product Dimensions	12.5 x 7.3 x 5.3 inches
Supply Voltage	100-240V AC, 50/60Hz
Supply Power	125 Watts
Output Power	120 Watts (24V DC)
IP Rating	IP65
Manufacturer	PAL PRODUCTS, INC.
ASIN	B0CSBSTC8W
Date First Available	January 14, 2024

10. WARRANTY AND SUPPORT

This product is covered by a manufacturer's warranty. Please refer to the warranty card included with your purchase or visit the official PAL Lighting website for detailed warranty terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact PAL Lighting customer service directly. Contact information can typically be found on the manufacturer's website or product packaging.

no relevant documents