

## eldoLED ECOdrive 366/L

# eldoLED ECOdrive 366/L 700MA LIN LED Driver Instruction Manual

Model: ECOdrive 366/L 700MA LIN

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of the eldoLED ECOdrive 366/L 700MA LIN LED driver. Please read these instructions thoroughly before proceeding with any installation or operation.

## 2. SAFETY INFORMATION

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- **Electrical Hazard:** Installation and servicing must be performed by qualified personnel in accordance with all national and local electrical codes.
- **Disconnect Power:** Always disconnect power at the circuit breaker before installing, servicing, or performing any maintenance on the LED driver or connected luminaires.
- **Proper Grounding:** Ensure the LED driver is properly grounded to prevent electrical shock.
- **Operating Environment:** Do not operate the driver outside its specified temperature and humidity ranges.
- **Compatibility:** Ensure the connected LED load is compatible with the driver's output specifications (constant current, voltage, and power).

## 3. PRODUCT OVERVIEW

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The eldoLED ECOdrive 366/L 700MA LIN is a 30W, 0-10V + AUX controllable, constant current LED driver designed for professional lighting applications. It features a single 55V output channel, programmed for 700mA, and comes in a long metal housing with side feed connections. This driver provides precise and smooth dimming capabilities for compatible LED fixtures.



Figure 3.1: eldoLED ECOdrive 366/L LED Driver. This image shows the compact, rectangular metal housing of the LED driver, indicating its form factor and general appearance.



Figure 3.2: Product Label for ECOdrive 366/L 700MA LIN. This label displays key identification information including model number (EC0366L2 700MA LIN), part number (801-00554-014), and a QR code for additional product details.

## 4. SETUP AND INSTALLATION

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Installation should only be performed by a qualified electrician. Ensure all local and national electrical codes are followed.

### 4.1 Mounting

The ECOdrive 366/L is designed for surface mounting. Secure the driver firmly to a suitable surface using appropriate fasteners. Ensure adequate ventilation around the driver to prevent overheating.

### 4.2 Wiring Connections

Refer to the wiring diagram provided with the product packaging for specific connection details. General wiring steps include:

1. **Input Power:** Connect the AC input power (Line, Neutral, Ground) to the designated terminals on the driver. Verify the input voltage matches the driver's specifications.
2. **LED Output:** Connect the LED fixture's positive and negative leads to the driver's constant current output terminals. Observe polarity.
3. **0-10V Control:** Connect the 0-10V dimming control wires (Dim+ and Dim-) to the corresponding terminals. Ensure proper polarity for dimming functionality.
4. **AUX Input:** If applicable, connect any auxiliary control signals to the AUX input as per system design.

*Always double-check all connections before applying power.*

## 5. OPERATING INSTRUCTIONS

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Once properly installed and powered, the ECOdrive 366/L will provide constant current to the connected LED load. The primary operation involves controlling the light output via the 0-10V dimming interface.

- **Dimming Control:** Apply a 0-10V DC signal to the dimming input terminals. A 10V signal typically results in 100% light output, while a 0V signal results in minimum or off state, depending on the driver's programming.
- **AUX Functionality:** The AUX input provides additional control capabilities, which may include features like occupancy sensing, daylight harvesting, or scene recall, depending on the specific system integration. Consult your lighting control system documentation for details on AUX input utilization.

## 6. MAINTENANCE

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The eldoLED ECOdrive 366/L LED driver is designed for long-term, reliable operation with minimal maintenance. There are no user-serviceable parts inside the driver.

- **Cleaning:** Periodically inspect the driver for dust accumulation. If necessary, gently clean the exterior with a dry, soft cloth. Do not use liquid cleaners or solvents.

- **Inspection:** Annually inspect wiring connections for any signs of wear, corrosion, or loose terminals. Ensure all connections are secure.
- **Ventilation:** Ensure that the area around the driver remains clear and unobstructed to allow for proper heat dissipation.

## 7. TROUBLESHOOTING

If the LED driver or connected luminaires are not functioning as expected, perform the following basic checks:

Problem	Possible Cause	Solution
No light output	No input power; Loose wiring; Incorrect LED connection; Faulty LED fixture.	Check circuit breaker; Verify all wiring connections; Ensure correct LED polarity; Test LED fixture with known good driver.
Flickering or unstable light	Poor dimming signal; Loose connections; Incompatible LED load.	Check 0-10V control wiring and signal source; Secure all connections; Verify LED load compatibility.
Incorrect dimming range	Dimming control issue; Driver programming.	Verify 0-10V signal range; Consult eldoLED for driver programming details if necessary.
Driver overheating	Insufficient ventilation; Overloaded LED load.	Ensure proper airflow around the driver; Verify LED load does not exceed driver's maximum power rating.

If issues persist after performing these checks, contact eldoLED technical support or a qualified service technician.

## 8. SPECIFICATIONS

Feature	Specification
Brand	eldoLED
Model	ECOdrive 366/L 700MA LIN
Power Output	30W
Control Channels	1 (0-10V + AUX)
Output Type	Constant Current
Output Voltage	1x 55V
Output Current	700mA (Programmed)
Form Factor	Side Feed, Long Metal
Mounting Type	Surface Mount
Material	Metal
UPC	715706905923

## 9. WARRANTY AND SUPPORT

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For warranty information and technical support, please refer to the official eldoLED website or contact your authorized eldoLED distributor. Keep your purchase receipt for warranty claims.