

Eurolite ETD-35105



EUROLITE ETD-35105 Electronic Dimmable Transformer

User Manual

1. INTRODUCTION

The EUROLITE ETD-35105 is an electronic dimmable transformer designed for low-voltage halogen lamp systems. This compact unit provides a stable 11.6 V DC output from a 230 V AC input, making it suitable for various lighting applications such as track systems, recessed lights, pendant lamps, and table lamps. Key features include:

- Compact dimensions for easy integration.
- Integrated short-circuit and overload protection.
- Integrated overheat protection circuit.
- Dimmable with both leading-edge (phase) and trailing-edge (phase-cut) dimmers.
- Soft start function for a smooth, gradually increasing current upon activation.

This product complies with the Electromagnetic Compatibility Directive 2004/108/EC and the Low Voltage Directive 73/23/EEG.

2. SAFETY INSTRUCTIONS

Please read these instructions carefully before installation and use. Keep this manual for future reference.

- **Electrical Safety:** Installation and maintenance should only be performed by a qualified electrician. Always disconnect the power supply before any installation, wiring, or maintenance work.
- **Voltage:** Ensure the input voltage matches the transformer's rating (230 V AC, 50 Hz).
- **Load:** Do not exceed the specified load range of 35-105 W. Overloading can damage the transformer and connected lamps.
- **Environment:** Do not expose the transformer to moisture, water, or extreme temperatures. Ensure adequate ventilation to prevent overheating.
- **Damage:** Do not operate the transformer if it appears damaged. Contact qualified personnel for inspection or repair.

3. SETUP AND INSTALLATION

The ETD-35105 transformer is designed for easy integration into various lighting systems. Follow these steps for proper installation:

3.1 Wiring Connections

The transformer comes with fixed connection cables with open ends for both input and output.

- **Input (Primary):** Connect the 230 V AC, 50 Hz mains supply to the primary input terminals. Ensure correct polarity (Live and Neutral).
- **Output (Secondary):** Connect your low-voltage halogen lamps (11.6 V DC) to the secondary output terminals. The transformer supports a load range of 35-105 W.

Important: Ensure all connections are secure and insulated to prevent short circuits. The maximum cable length for the secondary side should not exceed 2 meters to maintain optimal performance.

3.2 Mounting

The compact design allows for flexible mounting. This transformer is suitable for rail mounting. Ensure the mounting location provides sufficient air circulation to prevent overheating.



Image 1: EUROLITE ETD-35105 Electronic Dimmable Transformer. This image shows the compact white casing of the transformer with its connection points and product label visible.

4. OPERATION

Once properly installed and connected, the EUROLITE ETD-35105 transformer operates automatically. When power is supplied, the integrated soft start function ensures a gradual increase in current, extending the lifespan of your halogen lamps.

4.1 Dimming Functionality

This transformer is compatible with standard leading-edge (phase control) and trailing-edge (phase-cut) dimmers. Connect a suitable dimmer to the primary (230V AC) input circuit to control the brightness of the connected halogen lamps. Ensure the dimmer's power rating is appropriate for the total load of the lamps.

5. MAINTENANCE

The EUROLITE ETD-35105 electronic transformer requires minimal maintenance. It contains no user-serviceable parts.

- **Cleaning:** Ensure the transformer is disconnected from the power supply before cleaning. Use a dry, soft cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Inspection:** Periodically check for any visible damage to the casing or cables. If damage is found, discontinue use and consult a qualified electrician.

6. TROUBLESHOOTING

If you encounter issues with your ETD-35105 transformer, refer to the following common troubleshooting steps:

- **No Light Output:**
 - Check if the main power supply is active.
 - Verify all wiring connections are secure and correct.
 - Ensure the halogen lamps are functional and correctly installed.
 - Check the dimmer (if used) for proper operation and compatibility.
- **Flickering Lights:**
 - Ensure the total wattage of the connected lamps is within the transformer's 35-105 W range.
 - Verify the dimmer is compatible with electronic transformers and is functioning correctly.
 - Check for loose connections.
- **Transformer Overheating:**
 - Ensure adequate ventilation around the transformer.
 - Check if the total load exceeds 105 W. Reduce the load if necessary.
 - The transformer has integrated overheat protection, which may temporarily shut down the unit. Allow it to cool down.
- **No Dimming Function:**
 - Confirm the dimmer is correctly wired and compatible with electronic transformers.
 - Ensure the dimmer is designed for leading-edge or trailing-edge control.

If the problem persists after these steps, consult a qualified electrician or contact Eurolite customer support.

7. SPECIFICATIONS

Model	ETD-35105
Article Number	51402275

Input Voltage	230 V AC, 50 Hz
Output Voltage	11.6 V DC
Load Range	35 - 105 W (VA)
Power Source Type	Corded Electric
Dimming Compatibility	Leading-edge (phase) and Trailing-edge (phase-cut) dimmers
Mounting Type	Rail Mounting
Product Dimensions (W x D x H)	11 cm x 3.2 cm x 4.8 cm
Item Weight	130 g
Compliance	CE, EMC 2004/108/EC, LVD 73/23/EEG

8. WARRANTY AND SUPPORT

This EUROLITE product is manufactured by Steinigke Showtechnic, a company known for reliable quality since 1979. For warranty information, technical support, or service inquiries, please refer to the official Eurolite website or contact your local dealer.