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> Dabmar LIGHTING LVT100 Magnetic 100 Watt Low Voltage Transformer User Manual

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INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Dabmar LIGHTING LVT100 Magnetic 100 Watt Low Voltage Transformer. This transformer is designed for use with low voltage landscape lighting systems, featuring a manual timer and photocell for automated control. Please read this manual thoroughly before installation and operation to ensure safe and efficient use.

IMPORTANT SAFETY INFORMATION

WARNING: To reduce the risk of fire or injury, read and follow all instructions carefully.

- This transformer is **NOT FOR USE WITH DIMMERS**. Connecting to a dimmer switch may cause damage to the unit or create a fire hazard.
- Ensure the **TOTAL BULB USAGE DOES NOT EXCEED 100 WATTS MAX**. Overloading the transformer can lead to overheating and potential damage.
- This unit is **SUITABLE FOR INDOOR OR OUTDOOR USE**. When installing outdoors, ensure all connections are waterproof and protected from direct exposure to elements as per local electrical codes.
- Always disconnect power before installing, servicing, or cleaning the transformer.
- Installation should be performed by a qualified electrician or in accordance with local electrical codes.
- Do not immerse the transformer in water.
- Keep children away from the transformer during operation.

PRODUCT OVERVIEW

The Dabmar LVT100 transformer features a robust design for reliable low voltage power supply, incorporating a manual timer and a photocell for automatic operation based on ambient light conditions.



Figure 1: Front view of the Dabmar LVT100 Low Voltage Transformer. The clear protective cover reveals the control panel, which

includes a circuit breaker reset button on the left, a photocell sensor, and a rotary switch on the right for selecting operating modes (AUTO, ON, OFF) and timer settings (4H, 8H).

Key Components:

- **Circuit Breaker Reset Button:** Labeled "RESET", this button is used to restore power if the circuit breaker trips due to an overload or short circuit.
- **Photocell Sensor:** Detects ambient light levels to enable automatic operation (AUTO mode).
- **Mode/Timer Selector Dial:** A rotary switch with settings for:
 - **OFF:** Turns the transformer output off.
 - **ON:** Provides continuous power output.
 - **AUTO:** Activates the photocell. The transformer will turn on at dusk and off at dawn.
 - **4H (4 Hours):** Turns on at dusk via photocell and stays on for 4 hours.
 - **8H (8 Hours):** Turns on at dusk via photocell and stays on for 8 hours.
- **Power Cord:** Connects the transformer to a standard electrical outlet.
- **Low Voltage Output Terminals:** (Not visible in image, but implied) Connections for low voltage landscape lighting cables.

SETUP AND INSTALLATION

1. **Choose a Location:** Select a suitable location for the transformer. As per the product label, it is suitable for both indoor and outdoor use. For outdoor installation, choose a location that is protected from direct heavy rain and where the photocell can receive adequate ambient light. The unit is designed for wall mounting.
2. **Mount the Transformer:** Securely mount the transformer to a wall or sturdy surface using appropriate fasteners (not included) through the mounting holes. Ensure it is mounted vertically with the power cord facing downwards to prevent water ingress.
3. **Connect Low Voltage Cables:** Route your low voltage landscape lighting cables to the transformer's output terminals. Ensure all connections are secure and properly insulated. Refer to your lighting fixture's instructions for proper wiring. Do not exceed the total bulb usage of 100 watts.
4. **Plug In:** Once all low voltage connections are made and secured, plug the transformer's power cord into a standard 120V AC grounded electrical outlet.

OPERATING INSTRUCTIONS

The Dabmar LVT100 transformer offers several operating modes via its selector dial:

- **OFF Mode:** Rotate the dial to "OFF". The transformer will not provide power to the lights.
- **ON Mode:** Rotate the dial to "ON". The transformer will provide continuous power to the lights, regardless of light conditions.
- **AUTO Mode (Photocell):** Rotate the dial to "AUTO". The built-in photocell will detect ambient light. The lights will automatically turn on at dusk and turn off at dawn. Ensure the photocell is not obstructed and is exposed to natural light.
- **4H Mode (4-Hour Timer):** Rotate the dial to "4H". The photocell will detect dusk, turn on the lights, and keep them on for approximately 4 hours before automatically turning off.
- **8H Mode (8-Hour Timer):** Rotate the dial to "8H". The photocell will detect dusk, turn on the lights, and keep them on for approximately 8 hours before automatically turning off.

Circuit Breaker Reset: If the lights go out unexpectedly, check the circuit breaker reset button. If it has popped out, press the "RESET" button firmly to restore power. This usually indicates an overload or a short circuit in your lighting system. Address the cause of the overload before resetting.

MAINTENANCE

- **Cleaning:** Periodically clean the exterior of the transformer with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the photocell lens is clean and free of debris for proper operation.
- **Photocell Obstruction:** Regularly check that the photocell is not obstructed by dirt, leaves, or other objects that could prevent it from sensing light correctly.
- **Cable Inspection:** Periodically inspect the low voltage cables and connections for any signs of damage, fraying, or corrosion. Repair or replace damaged cables immediately.
- **Wattage Check:** Ensure the total wattage of connected lights does not exceed the transformer's maximum capacity of 100 watts.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on.	<ul style="list-style-type: none"> • No power to the transformer. • Circuit breaker tripped. • Photocell obstructed or in bright light (in AUTO/Timer modes). • Mode selector set to OFF. • Loose or faulty low voltage connections. • Overloaded circuit. 	<ul style="list-style-type: none"> • Check wall outlet and power cord. • Press the "RESET" button on the transformer. • Clear any obstructions from the photocell. Test in a dark environment or cover the photocell. • Rotate the dial to ON, AUTO, 4H, or 8H. • Check and secure all low voltage wiring connections. • Reduce total connected wattage to below 100 watts.
Lights stay on continuously (in AUTO/Timer modes).	<ul style="list-style-type: none"> • Photocell receiving too much light (e.g., from a nearby porch light). • Photocell faulty. 	<ul style="list-style-type: none"> • Relocate the transformer or shield the photocell from artificial light sources. • Contact customer support if the photocell is suspected to be faulty.
Lights turn off too early or too late (in Timer modes).	<ul style="list-style-type: none"> • Inconsistent light detection by photocell. 	<ul style="list-style-type: none"> • Ensure photocell is in a location with consistent natural light.

SPECIFICATIONS

Feature	Detail
Model	LVT100
Brand	Dabmar LIGHTING
Power Source	AC (120V input, Low Voltage output)

Feature	Detail
Max Wattage Output	100 Watts
Mounting Type	Wall Mount
Timer Functions	Photocell (Dusk-to-Dawn), 4-Hour, 8-Hour, ON, OFF
Safety Certification	UL Listed
Usage Environment	Indoor or Outdoor Use
UPC	849095095337
Approx. Dimensions (L x W x H)	7 x 5 x 5 inches
Approx. Weight	7 Pounds

WARRANTY AND SUPPORT

For warranty information or technical support regarding your Dabmar LIGHTING LVT100 Low Voltage Transformer, please contact Dabmar Lighting customer service. Keep your purchase receipt as proof of purchase for any warranty claims.

For further assistance, please visit the manufacturer's official website or contact their support line. Contact details are typically found on the product packaging or the manufacturer's website.

