# **Installation Operation and Service Manual**

Instruction for models: LST100/LST300 Transformers

## IMPORTANT SAFETY INSTRUCTIONS

# READ, FOLLOW, AND UNDERSTAND ALL INSTRUCTIONS AND WARNINGS

#### **MARNING - RISK OF FIRE OR ELECTRICAL SHOCK**

- Special wiring methods are needed if the installation requires running wire through a building structure.
- Do Not submerge transformer.
- Do Not exceed the maximum ratings of individual components, wiring devices, and current carrying capacity of conductors.
- Select cable for each secondary output in accordance with tables in this manual.
- Select power source by combining bulb wattage.
- For landscape lighting appliances, low voltage cable shall be buried a maximum of 6 inches (15.2 cm) in order to connect to the main low voltage cable.
- Installation shall be done by a qualified professional according to all state, local, and national electrical codes.

#### GENERAL INFORMATION

These safety transformers were created to provide 12 volts to pool/spa lights, submersible fixtures, outdoor garden lights. In the event of a fault or overload, the built-in circuit can cut power to the transformer. These transformers are designed for direct connection to underwater lights in pools and spas.

#### SPECIFICATIONS

Enclosure Size: 7¼" (19.4 cm) high x 5¼" (13.3 cm) wide x 4½" (11.4 cm) deep. Mounting brackets top and bottom.

Enclosure Type: LST100 and LST300 - 0.048" corrosion resistant steel with electrostatically applied paint.

Knockouts: Total of ten 1/5" - 1/4" combination. (4) bottom, (2) right side, (2) left side, (2) back.

#### LANDSCAPE LIGHTING APPLICATIONS

Use only CSA or UL certified low-voltage cable. Low voltage cable shall be buried a maximum of 6" (15.2 cm) in order to connect to the main low voltage cable.

Transformer Wattage (W)	Minimum Gauge AWG
300	12
100	16

#### POOL/SPA UNDERWATER LIGHTING APPLICATION

For field wiring information, please refer to the instructions attached to inside of front cover.

#### INISTALLATION:

- Make sure that all unused taps (leads) are separately insulated.
- Use the Tranformer Cable-Voltage Selection Charts as a guide to determine the correct wire size.
- The voltage at lamp terminals after installation should be 12 ± 0.3 VAC.
- Voltages above 12.3 VAC at the light may cause the internal safety fuse of the transformer to switch off and on. To prevent this from happening, follow the Transformer Cable-Voltage Selection Charts for correct voltage and wire gauge selection.
- Select power source by combining bulb wattage.
- Determine length of cable run(s).
- Determine wire gauge needed to deliver necessary power.
- Connect cable to output tap of transformer given in table.

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