

# Installation & Operating Guide

## FOR LANDSCAPE LIGHTING TRANSFORMERS

Professional Grade Stainless Steel Models: AL300TPWS / AL600TPWS / AL900TPWS

### Mounting Instructions

- Select appropriate hardware (not supplied) to secure unit to mounting surface to adequately support weight.

AL300TPWS 22 LBS      AL900TPWS 52 LBS  
AL600TPWS 37 LBS

### Installation Instructions

#### ALL MODELS

- All units are to be mounted no less than one foot above ground level and at least ten feet (3 meters for CANADIAN installations) from any pool or spa walls.
  - When cord mounted, all units should be connected to a GFCI protected outlet.
  - An approved while in use wet location outlet cover should be utilized when transformers are installed outside.
  - Do not use a dimmer or extension cord on these units.
  - Cable installation should be done according to the National Electric Code and local ordinances. The main secondary wiring should be buried a minimum of six inches below ground level.
  - Do not connect two or more power supplies in parallel.
1. Installation is to be done with 120-volt power supply disconnected.
  2. Open outer door and remove metal dead front located at the lower portion of unit. Retain screws and dead front.
  3. Using a flat blade screw driver or similar tool, remove the appropriate knockouts(s) by striking from the outside.
  4. A conduit pipe may be inserted into the knockout hole for secondary wire protection / appearance reasons.
  5. For low voltage cable connection, use 12 AWG minimum wire. For each 300W transformer output, split the end of the cable approximately 2" and strip about 1/2" of insulation off each wire.
  6. Insert bare wires into Euro-styled terminal and tighten with flat blade screw driver. Gently tug on wires to insure tight connection.
  7. Each circuit has two connection ports for ease of installation when multiple wires are to be attached. However, depending on the gauge of wire used, more than one set of wires may be connected to a terminal port.
  8. Replace dead front and screws.

### Conduit Mounting

#### HARDWIRING

For conduit mounting, installation must be done by a licensed electrician per the National Electric Code (NEC NFPA/70). Conduit must be used on both the primary and secondary sides of the transformer if the secondary wire passes through a structure wall.

1. Follow steps 1-4 of normal installation.
2. Remove the cord set by loosening the terminal screws and remove the strain relief holding the cord.
3. Cut the cord set so that 6 inches of the green grounding conductor remains attached to the transformer, discard remaining portion of cord set.
4. Insert hole plug (not provided) into vacated cord set hole.
5. Install conduit into knockout.
6. Attach black incoming 120-volt wire to transformer line terminal and white incoming 120-volt wire to com (common) terminal. Using a wire nut connect green ground wire of transformer to incoming green ground wire (see wiring diagram below). All conductors are to be insulated for the maximum voltage involved, use copper conductors only.
7. Complete installation by following steps 5-8 of normal installation.

### Operating Options

- Manual**
  - Use to have a remote switch or timer control the transformer on-off cycle.
- Photo Cell**
  - Use to have transformer operate from dusk to dawn.
- Timer**
  - Use so transformer comes on and goes off at a specific time daily.
- Timer-Photo Cell**
  - Use so transformer always comes on at dusk and off at a specific time daily. The time clock is normally set to come on at 3 PM and the photo cell activates the transformer at dusk regardless of time of day or year. The timer is then set to turn the unit off at a specific time later that night.
- Remote**
  - Use for the ability to turn transformer on or off by use of a hand held controller or plug-in controller.

### Operating Instructions

- Manual Operation**
  - Set slide switch to the "Photo Cell/Manual" setting.
  - **DO NOT** remove photo cell blackout cover.
- Photo Cell Operation**
  - Set slide switch to the "Photo Cell/Manual" setting.
  - Remove photo cell black out cover.
- Timer Operation**
  - Set slide switch to the "Timer" setting.
  - Place "On" pin (red) to desired time for unit to turn on, place "off" pin (black) to time of unit shut down.
  - Spin time dial clock-wise until time of day aligns with time mark.
  - **DO NOT** remove photo cell blackout cover.
- Timer-Photo Cell Operation**
  - Set slide switch to the "Timer-Photo Cell" setting.
  - Set timer as shown above.
  - Remove photo cell blackout cover.
- Voltage Output**
  - Set the slide switch to the desired voltage output. Each 300-watt circuit has its own slide switch and can have different settings.

**Notes:** *When using voltage exceeding 12-volts you must carefully monitor the system to prevent excess voltage from reaching the lamps.*

*Additional timer trip pins are supplied with each unit. Two on-off cycles may be programmed using these pins or they may be saved for future use.*

#### LIMITED 5 YEAR WARRANTY

If within the warranty period specified, this product fails due to a defect in material or workmanship, Intermatic Incorporated will repair or replace it, at its sole option, free of charge. This warranty is extended to the original household purchaser only and is not transferable. This warranty does not apply to: (a) damage to units caused by accident, dropping or abuse in handling, acts of God or any negligent use; (b) units which have been subject to unauthorized repair, opened, taken apart or otherwise modified; (c) units not used in accordance with instructions; (d) damages exceeding the cost of the product; (e) sealed lamps and/or bulbs, LED's and batteries; (f) the finish on any portion of the product, such as surface and/or weathering, as this is considered normal wear and tear; (g) transit damage, initial installation costs, removal costs, or reinstallation costs.

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This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Warranty service is available by mailing postage prepaid to: Intermatic Incorporated/After Sales Service, 7777 Winn Rd., Spring Grove, IL 60081-9698/815-675-7000 <http://www.intermatic.com>. Please be sure to wrap the product securely to avoid shipping damage.

**STAINLESS STEEL CASES ONLY ARE WARRANTED FOR LIFETIME**  
NOTE: Units tested by our Warranty Service Department and found to be operating properly will be returned via UPS to the user.

Mfg by: INTERMATIC INC., Spring Grove, IL 60081-9698