### Identifying your wiring application

#### CAUTIONS:
- To avoid overheating and possible damage to this device and other equipment, use only with the appropriate LED 0-10V dimmable power supplies/drivers. Advance Transformer Mark 7® OSRAM Sylvania Quicktronic® Helios™ or equivalent dimmable ballasts.

#### INSTALLATION INSTRUCTIONS

**WARNING:**
- To avoid fire, shock, or death; Turn off power at circuit breaker or fuse and test that power is off before wiring or servicing fixture!

- You only need to remove side sections if installing Dimmer in a multi-device application; proceed as follows:

1. **Tools needed to install your Dimmer**
   - Slotted/Phillips Screwdriver
   - Electrical Tape
   - Pliers
   - Cutters
   - Ruler

2. **Changing the color of your Dimmer**
   - Your Dimmer includes three color options. The Dimmer ships with the White frame attached. To change color of frame, proceed as follows:
   - Push in side tab to release
   - Live up tabs and press in side to attach

3. **Installing Dimmer by itself or with other devices**
   - If installing Dimmer in a single device application, proceed with the INSTALLING YOUR DIMMER section. If installing Dimmer in a multi-device application, proceed as follows:

   **MULTI-DEVICE APPLICATION**
   - **Note:** You only need to remove side sections if installing with other dimmers or if it does not fit in wall box – not when installing a single Dimmer in a multi-device application, proceed as follows:

   **INSTALLING YOUR DIMMER**
   - **WARNING:** To avoid fire, shock, or death; turn off power at circuit breaker or fuse and test that power is off before wiring!

   **Step 1**
   - **Preventing wires:**
     - Ensure that low-voltage wiring for (Gray and Violet connection of dimmer) is installed at wallbox that will house the IP710 Dimmer.
     - Black dimmer lead to Line Hot wall box wire.
     - Red dimmer lead without insulating label to Load wall box wire.
     - Violet connection of dimmer in conjunction with a Leviton OPP20 120/277V Power Pack.

   **Step 2**
   - **Identifying your wiring application (most common):**
     - If the wiring in the wall box does not resemble any of these configurations, consult an electrician.

   **Step 3**
   - **Wiring diagrams**:
     - Using OPP20 instruction sheet for appropriate LED 0-10V dimmable power supplies/drivers.

4. **Single-Pole Wiring Application**
   - 0-10VDC ballasts are rated in Volt-Amps (VA). The maximum number of ballast per dimmer is based on the load VA rating. The maximum bulb wattage is determined by the efficiency of the ballast.

   **MAXIMUM BULB WATTAGE:**
   - 0-10VDC ballasts are rated in Volt-Amps (VA). The maximum number of ballast per dimmer is based on the load VA rating. The maximum bulb wattage is determined by the efficiency of the ballast.

   **MAXIMUM LOAD PER DIMMER FOR MULTI-DEVICE**:
   - If installing Dimmer in a multi-device application, proceed as follows:

   **Step 4A**
   - **Wiring diagrams**:
     - Using OPP20 instruction sheet for appropriate LED 0-10V dimmable power supplies/drivers.

   **Step 4B**
   - **Wiring diagrams**:
     - Using OPP20 instruction sheet for appropriate LED 0-10V dimmable power supplies/drivers.

5. **3-Way Switching Capacity**
   - Use dimmers in conjunction with a Leviton OPP20 120/277V Power Pack.

   **SWITCH RATINGS**
   - 20 Amps for 120 and 277 VAC Ballast
   - 28 mA maximum sink current. Contact your ballast manufacturer for the sink current rating of the ballast.

   **Step 5**
   - **Prepare for 3-way applications, note that one of the wire connections can be removed using a Leviton OPP20 120/277V Power Pack.**

   **Step 6**
   - **Single Pole Wiring Application**
     - For 3-way applications, note that one of the wire connections can be removed using a Leviton OPP20 120/277V Power Pack. **NOTE:** Use only one (1) dimmer in a 3- or 4-way circuit. The switch(es) will turn the light on at the brightness level selected at the dimmer.

   **Step 7**
   - **Single-Pole Wiring Application**
     - Connect wires per wiring diagram 1 (shown on page 2) as follows:
     - Screw wire nuts on clock wise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape.

   **Step 8**
   - **3-Way Wiring Application**
     - Connect wires per wiring diagram 3 (shown on page 2) as follows:
     - Screw wire nuts on clockwise making sure no bare conductors show below the wire connectors. Secure each connector with electrical tape.

   **Step 9**
   - **3-Way Wiring Application**
     - Dimmer can be installed on either the Load or Line side.

   **Step 10**
   - **For additional switching capacity, use dimmers in conjunction with a Leviton OPP20 120/277V Power Pack.**
     - Secure each connector with electrical tape.

   **Step 11**
   - **NOTE:** Dimmer can be installed on either the Load or Line side.

   **Step 12**
   - **NOTE:** Ensure that low-voltage wiring for (Gray and Violet connection of dimmer) is installed at wallbox that will house the IP710 Dimmer.

   **Step 13**
   - **NOTE:** Use only one (1) dimmer in a 3- or 4-way circuit. The switch(es) will turn the light on at the brightness level selected at the dimmer.

   **Step 14**
   - **NOTE:** Use only one (1) dimmer in a 3- or 4-way circuit. The switch(es) will turn the light on at the brightness level selected at the dimmer.
Step 5 Testing your Dimmer prior to mounting in wall box.

- Restore power at circuit breaker or fuse.
- Gently holding Dimmer as shown, move slider control lever to highest position. Lights should turn ON to brightest level. If lights do not turn ON, depress push-button switch once. Lights should turn ON to brightest level.
- If lights still do not turn ON, refer to the TROUBLESHOOTING section.

Step 6 Dimmer Mounting:

TURN OFF POWER AT CIRCUIT BREAKER OR FUSE.

Installation may now be completed by carefully positioning all wires to provide correct in wall box for dimmer. Mount dimmer into box with mounting screws supplied. Attach wallplate.

Step 7 Restore Power:

- Restore power at circuit breaker or fuse.
- Installation is complete.

OPERATION

NOTE: If using the dimmer in a 3-way application, the lights will turn ON at brightness set on dimmer's slide control lever. The lights can be controlled from either the dimmer or the switch location.

ON/OFF:
Depress push button switch to ON position - Lights will turn ON.
Depress push button switch to OFF position - Lights will turn OFF.

BRIGHTEN & DIM:
Move slider control lever - Lights will BRIGHTEN or DIM.

Setting the Maximum Light Level

This dimmer features a Maximum Trim adjustment to adjust the maximum light level of the dimmer.

1. Locate the "Trim Adjustment" dial on the top of the dimmer.
2. Rotate the dial clockwise to reduce the maximum light level, or counter-clockwise to increase the maximum light level.

TROUBLESHOOTING

- Lights Flickering - Lamp has a bad connection.
- Wires not secured firmly with wire connectors.
- Lamp does not turn ON - Circuit breaker or fuse has tripped.
- Lamp is burned out.
- Lamp Neutral connection is not wired.

NOTE: If further information is needed in identifying the dimmer or the switch location, contact Leviton’s Techline at 1-800-824-3005 or visit Leviton’s website at www.leviton.com.

For non-standard wiring applications, refer to wire Nut and Connector Size Chart.

Wire Connector / # of Cond.

<table>
<thead>
<tr>
<th>Size Chart</th>
<th>0-10 VDC Ballast</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-12 w/ 1</td>
<td>0.045 #14, #16 or #18</td>
</tr>
<tr>
<td>2-12 w/ 1</td>
<td>0.06 #12 or #18</td>
</tr>
<tr>
<td>1-16 w/ 1</td>
<td>0.045 #18</td>
</tr>
<tr>
<td>2-16 w/ 1</td>
<td>0.06 #14 or #16</td>
</tr>
</tbody>
</table>

For additional information, contact Leviton’s Techline at 1-800-824-3005 or visit Leviton’s website at www.leviton.com.