3 Wire Ballast

1. Installation Instructions:

   - **Installation Requirements:**
     - Devices should not be installed vertically.
     - Installation of multiple devices into a single box may require device rating and grounding.
     - These devices are designed for installation into a metal 3" x 3" (7.62 cm) single gang or multi-gang device back box. 2-1/2" (6.35 cm) or deeper back boxes are required. These devices are not designed for a multi-gang field configured box. In some installations where conduit entry is from the side, or in multi-gang installations where nipples between two adjacent boxes are used, deeper back boxes may be necessary. Test fit installation prior to rough-in.
     - Installation of multiple devices into a single box may require de-rating and other specific installation provisions. Reference Multi-Gang Installations for more details.
     - As devices vent top/bottom, devices should not be installed vertically (one over the other).
     - To avoid flickering, flashing, or lights on one device adjusting when another device's level is changed, do not share neutrals. Run separate neutrals for each load circuit back to the device. (See Figure 1).

   - **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!
     - Remove existing wall plate and switch, if applicable.
     - Connect wires per Wiring Diagram. If traveler wire is not used it must be insulated (wire nut or electrical tape).
     - Installation may now be completed by carefully positioning all wires to provide room in outlet box for device. Mount device into box with mounting screws supplied.
     - Install device control push button and control assembly (see Figure 2).
     - Snap faceplate into place.
     - Restore power at circuit breaker or fuse. Installation is complete.
     - Test Device operation.

   - **Features and Operation:**
     - Turn Device ON or OFF – Pressing the switch will turn the device ON if the device is OFF. If the device is ON, pressing the switch will turn the device OFF.
     - Set Cutoff Level – Adjust the knob or slider to set the desired output level. When the device turns ON, the device always turns ON to the level set by the slider or knob.
     - Set Cutoff Level – The cutoff level is the lowest voltage the dimmer will output before shutting OFF. To set the cutoff level, adjust the knob or slider to the maximum output. Slowly lower the output to the desired cutoff level, then push and hold the power button for 10 seconds. The dimmer will adjust to the new level. To reset the cutoff level to 0, adjust the knob or slider to the minimum output, then push and hold the power button for 10 seconds. If your load is flickering, not turning ON, or suffering from any other erratic behavior at the minimum setting, raising the cutoff level may eliminate the problem. If your load will not dim, reset the cutoff level to 0 and then reset desired minimum level. If your load dims but jumps to maximum brightness when the dimmer is set to minimum, the minimum cutoff is set too low. Reset cutoff to a higher level.
     - **Preset Operation** – While device is off, set level of device. Then press button. The device will turn on at the set level.
     - **Power Restore** – Upon restoration of power, the device turns ON to the state it was in at the time of power loss.
     - **5-Way Operation** – Link together 2, 3, 4, or 5 devices for multi-way dimming. All connected devices must be powered by the same electrical circuit to ensure proper communication between the devices.
     - **LED Locator** – At the bottom of the switch is an LED locator. This locator illuminates when the device is OFF so you can find the device in the dark.
     - **Remote Control** – If you are using a remote, the operation at the remote is identical to the operation at the master. A slight reaction delay may be noticed if operating levels change very quickly.

   - **WARNING:** TO AVOID FIRE, SHOCK OR DEATH; TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING!

   - **Use this device with: COPPER OR COPPER CLAD WIRE ONLY.

   - **CAUTION:** DO NOT GANG VERTICALLY.

   - If you are not sure about any part of these instructions, consult an electrician.

   - **Contact Information:**
     - Leviton Manufacturing Co., Inc.
     - 2700 North Cochrane Avenue
     - Milwaukee, WI 53213
     - Phone: 1-800-367-8302
     - Website: www.leviton.com

   - **Wiring Diagram:**

   - **Output:**
     - OUTPUT - HA 5A
     - OUTPUT - HB 8.3A
     - OUTPUT - HC 12.5A
     - OUTPUT - HD 16A

   - **NOTE:** For use in multi-way control (remote) applications. Cap wire if not used.
**Multi-Gang Installations:**

A multi-ganged installation exists when multiple devices are installed in the same back box. In multi-gang installations, the following may be required:

- Device de-rating
- Fin removal
- Use of joiner bars for adjacent devices
- Back box size

**NOTE:** Test fit device installation with the wall plate prior to breaking fins or installing devices to ensure you understand all requirements.

**De-ratings:**

When fins are broken, some devices must be de-rated. Reference table below to determine the device ratings when 0, 1, or 2 fins are removed.

**Fluorescent - 3 Wire Phase Control - 120-277VAC/VCA, 60Hz**

Use only for control of electronic ballast luminaires. Intended for Lutron® Ecos, Ilume, or Hi-Lume 3D Fluorescent Ballasts. CAUTION: To reduce risk of overheating and possible damage to other equipment, do not install to control a receptacle, a motor-operated appliance, or a transformer supplied appliance.

<table>
<thead>
<tr>
<th>3 Wire Phase Control</th>
<th>Device de-rated</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWVH0-4H, AWVH0-4H**</td>
<td>50%</td>
</tr>
<tr>
<td>AWVH0-4H, AWVH0-4H**</td>
<td>25%</td>
</tr>
<tr>
<td>AWVH0-4H, AWVH0-4H**</td>
<td>10%</td>
</tr>
<tr>
<td>AWVH0-4H, AWVH0-4H**</td>
<td>5%</td>
</tr>
</tbody>
</table>

**Fin Removal:**

When it is desired to install devices in as small a space as possible, all inside fins of the type(s) of the adjacent devices can be broken off. Figure 4 shows how to break off fins and the specific order in which multiple devices must be installed in multi-gang installations.

<table>
<thead>
<tr>
<th>Break off these fins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Back view of devices shown</td>
</tr>
<tr>
<td>Break off these fins</td>
</tr>
<tr>
<td>DO NOT Break off these fins</td>
</tr>
</tbody>
</table>

**Back Box Size & Joiner Bars:**

To determine the required back-box size in multi-gang installations, reference table below. In applications where the devices do not line up with back box device mounting holes, use joiner bars to join the controls together. Reference Figure 5.

<table>
<thead>
<tr>
<th><strong>Basic Configurations</strong></th>
<th>Number &amp; Type of WIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>AWPO0-01x, AWPO0-02x, AWPO0-03x</td>
</tr>
<tr>
<td>1</td>
<td>AWPO0-01x, AWPO0-02x, AWPO0-03x</td>
</tr>
<tr>
<td>2</td>
<td>AWPO0-01x, AWPO0-02x, AWPO0-03x</td>
</tr>
</tbody>
</table>

1. Find the cells that correspond to your application by identifying the row with the number of wide heatsink devices you have, and the column that corresponds to the number of narrow heat sink devices you have. In the cell you’ll find the following:

2. The number indicates the number of “Gangs” required.

3. The letters under the number indicate the order devices should be installed, N=narrow, W=wide.


5. “-” = left fin break-off on wide device, “N” = left fin break-off on narrow device.


**NOTE:** Metal finishes are not available on custom face plates.

**Basic WIDE/NARROW configurations, for additional configurations see:** www.leviton.com/RENORIR

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**Multi-Way Control:**

The Renor II product line supports up to 5-way control. Any combination of Dimmers, Fan Controls, Switches, or Remotes are supported with a maximum of 5 DEVICES. Total loop run length from end to end is maximum 250 FEET. Remotes require Uncontrolled Hot, Neutral, & Ground for proper operation. One traveler wire is to run in between in all masters and remotes. Remotes draw 15mA power (ea) from the control to which they are connected.

**NOTE:** Remote Hot/Neutral should ideally be fed from the same circuit as the Master. If this is not possible, ensure that the master and remote are both fed from the same phase.