**Description**

The Onset Digital Dimmer is a single-pole, micro-touch digital dimmer. The unit is designed to control permanently installed fluorescent loads equipped with Advance Mark X® or other direct drive dimmable electronic ballasts.

**Installation Instructions**

1. Identify and mark each wire in the wall box, making sure you have the correct number of wires needed for the appropriate installation diagram.
2. Before installation, disconnect power to the circuit by removing the fuse or turning the circuit breaker to the off position.
3. Unpack the Onset Digital Dimmer.
4. Follow the wiring diagram that corresponds to your installation project (i.e., single-pole or three-way installation).
5. Remove the existing switch from the wall box.
6. Connect the white dimmer wire to the neutral in the wall box.
7. Connect the device as shown. NOTE: To determine which wire is the line wire (120 VAC), use a circuit tester or an equivalent device.
   a. With the circuit energized, carefully touch the tip of one of the wall box wires with a tester probe.
   b. Make contact to the ground (i.e., touch the metal wall box or the ground wire) with the other tester probe. The indicator light on the tester should glow.
   c. If the tester light does not illuminate, repeat the test on other wall box wires until the light glows.
8. Position the device into the wall box and install the faceplate.

**Single-Pole Installation**

1. NOTE: Wire colors indicated are those of the device only, not the wires in the wall box. Be sure to test wall box wires before making any connections.
2. Connect the device following the single-pole wiring diagram shown.

**Three-Way Installation**

1. NOTE: Three-way or multi-location applications require the use of an Onset Three-Way Remote OSR-3, in conjunction with an Onset Preset Dimmer.
2. Please refer to the installation instructions included with the Onset Three-Way Remote for proper wire connections.
3. NOTE: A regular three-way switch should NOT be used to control an Onset dimmer. Doing so may damage the control and, in turn, void the unit’s warranty.

**Operating Instructions**

**LED Indicators:**

- Soft green: User preset (1)
- Bright green: Current level (2)
- Blinking red: Fading off (3)
- Glowing red: Dimmer off (4)

Set a Preset (from off):
- Hold down the rocker top (A) and release it when the desired lighting level is reached.
- Press the set button on the right side of the frame (C)

Turn Lights on to Preset (from off):
- Tap the rocker top (A) once.

Turn Lights on to Full Power:
- Tap the rocker top (A) twice.

To Adjust the Lighting Level:
- Hold down the rocker top or bottom (A) and release it when the desired lighting level is reached.

Turn Lights Off:
- Tap the rocker top (A) bottom once or twice.

For technical/sales assistance, call: 1-800-526-2731

www.lolcontrols.com P/N 85-1052
INSTALLATION INSTRUCTIONS

ONSET MICRO-TOUCH DIGITAL DIMMER

Ganging Information

High-wattage Onset Micro-Touch Digital Dimmers (OH1500EB) may be mounted with other Lightolier® heatsink controls that match in depth. Fins may be left intact (see “No Fins Broken” below), or they may be broken to conserve wall space (see “Fins Broken” below).

No Fins Broken

Multiple Onset high-wattage controls may be mounted together with dimmers of the same depth, without derating. However, they must be mounted in separate single wall boxes. These boxes must be spaced to the dimensions shown to the right to ensure proper alignment. Allow six inches free clearance above and below the controls.

Another mounting option is to gang wall boxes together for ease of installation. Refer to the chart to the right to find the minimum number of wall boxes needed when no fins are broken.

There is a special placement guideline to consider when ganging Onset Double-Gang Controls with other Lightolier Single-Gang Controls. As stated in the chart, to comply with spacing, you must be sure to install a single-gang control on one end and a double-gang control on the other end.

Fins Broken

When ganging high-wattage controls that match in depth, fins may be broken to conserve wall space. This applies to both single- and double-gang units.

Using a vise or heavy-duty pliers, remove the outer fins on either or both sides, as needed. (Consult the wall box centering dimensions.) Allow six inches free clearance above and below the controls. Then, when the fins are removed, derate the maximum load according to the derating chart to the right.

Derating for proper fit during a multiple-gang Onset installation, it may be necessary to remove one or both sides from the mounting strap or flanged heatsink prior to connecting the wires leads. When fins are broken, the overall rating of the device must be reduced according to the derating chart below.

Fins Broken-Derating Chart

<table>
<thead>
<tr>
<th>Device Max. Load</th>
<th>Wallbox Dimmers - Fins Removed One Side</th>
<th>Wallbox Dimmers - Fins Removed Both Sides</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000W</td>
<td>800W</td>
<td>700W</td>
</tr>
<tr>
<td>1500W</td>
<td>1300W</td>
<td>1100W</td>
</tr>
</tbody>
</table>

Total Ballast Quantity

<table>
<thead>
<tr>
<th>Lamp Watts</th>
<th>Type Lamp</th>
<th>Ballast Model</th>
<th>Dimmer Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>T4</td>
<td>REZ-IT32</td>
<td>OH500EB</td>
</tr>
<tr>
<td>32</td>
<td>T4</td>
<td>REZ-IT32</td>
<td>OH500EB</td>
</tr>
<tr>
<td>42</td>
<td>T4</td>
<td>REZ-IT42</td>
<td>OH500EB</td>
</tr>
<tr>
<td>26</td>
<td>T4</td>
<td>REZ-2Q26</td>
<td>OH500EB</td>
</tr>
<tr>
<td>40</td>
<td>T5</td>
<td>REZ-IT3150</td>
<td>OH500EB</td>
</tr>
<tr>
<td>40</td>
<td>T5</td>
<td>REZ-2IT3150</td>
<td>OH500EB</td>
</tr>
<tr>
<td>25</td>
<td>TB</td>
<td>REZ-IT32</td>
<td>OH500EB</td>
</tr>
<tr>
<td>25</td>
<td>TB</td>
<td>REZ-2532</td>
<td>OH500EB</td>
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<td>25</td>
<td>TB</td>
<td>REZ-3532</td>
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<td>32</td>
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<tr>
<td>32</td>
<td>TB</td>
<td>REZ-3532</td>
<td>OH500EB</td>
</tr>
</tbody>
</table>

Troubleshooting Guide

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamps do not start, flicker or go out at low-level</td>
<td>• Linear lamps are particularly sensitive to the correct grounding of the ballast to the fixture. Verify proper ground wire installation.</td>
</tr>
<tr>
<td>One lamp end repeatedly blackens prematurely</td>
<td>• Control device minimum set point adjusted to low.</td>
</tr>
<tr>
<td>Cannot remove problem</td>
<td>• To insure control is operating properly, connect an incondescent lamp lead across the fault dimming wire and white neutral wire at the wallbox. Control should dim the lamp properly.</td>
</tr>
<tr>
<td>One lamp end repeatedly blackens prematurely</td>
<td>• Possible loose, shorted or broken wires between lamp and ballast. Verify wiring is correct and not damaged.</td>
</tr>
</tbody>
</table>

3 YEAR LIMITED WARRANTY

Lightolier® Controls warrants that this product will be free from defects in workmanship or materials. This warranty is void on any electronic controls which have been overloaded, abused, improperly installed or altered in any manner. Lightolier® Controls’ sole obligation will be at its option to repair or replace any electronic controls product proven defective if it is returned postage-paid within three years of the date of shipment from Lightolier Controls to:

Lightolier Controls • 2413 S. Shiloh Road • Garland, Texas 75041

Lightolier Controls will not pay for any charge-back, or charge for labor on material that does not have its previous written approval. This warranty shall be in lieu of any other warranty — expressed or implied — including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. Some states do not allow limitations on how long an implied warranty lasts and do not allow the exclusion or limitation of incidental or consequential damages. Therefore, the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For technical/sales assistance, call: 1-800-526-2731
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www.lolcontrols.com P/N 85-1052

This product may be covered by one or more of the following U.S. Patents: #4,413,211; 4,430,576; 4,465,956; 4,733,138; 4,792,731; 4,880,950; 4,988,840; 4,992,709; 5,128,654; 5,153,816; 5,189,259; 5,194,838; 5,371,439; 5,371,444; 5,636,111; 5,642,104; 5,646,490 Des. 307,578; Des. 333,124; License 4,482,844 and corresponding foreign patents. Other Utility, Design and Foreign Patents Pending.

We reserve the right to change details of design, materials and finish in any way that will not alter the installed appearance or reduce function performance.

Lightolier® Controls
A Genlyte Thomas Company
2413 S. Shiloh Road • Garland, Texas 75041

No Fins Broken—Seperate Wallbox

No Fins Broken—Multi-Gang Wallbox

Fins Broken—Multi-Gang Wallbox

No Fins Broken—Multi-Gang Wallbox

Fins Broken—Multi-Gang Wallbox

No Fins Broken—Multi-Gang Wallbox

Fins Broken—Multi-Gang Wallbox