**WARNING**

DO NOT CONNECT DIRECTLY TO HIGH VOLTAGE POWER!

Read all warnings and installation instructions thoroughly.

### Safety & Warnings

- Install in accordance with the National Electric Code, and local regulations.
- This product is intended to be installed and serviced by a qualified, licensed electrician.
- DO NOT connect directly to high voltage power. Install with a compatible Class 2 constant voltage LED driver (power supply).
- Only install compatible LED drivers and fixtures. Contact technical support or visit the product page for compatible products.
- This product is rated for indoor installation and is not protected against moisture.
- Proper heat dissipation will prolong the working lifespan of this product. Install in a well-ventilated area free from explosive gases and vapors.
- Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.). Inadequate wire installation could overhead wires, and cause a fire.
- Do not modify or disassemble this product beyond instructions or the warranty will be void.

### Quick Specs

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input / Output Voltage</td>
<td>12-24VDC Constant Voltage</td>
</tr>
<tr>
<td>Ambient Temperature †</td>
<td>-40°F ~ 140°F (-40°C ~ 60°C)</td>
</tr>
<tr>
<td>Minimum Load</td>
<td>See driver specs for min load.</td>
</tr>
<tr>
<td>Maximum Load</td>
<td>100W (12V &amp; 24V)</td>
</tr>
</tbody>
</table>

### Included Models

<table>
<thead>
<tr>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>REIGN-TD-**</td>
</tr>
</tbody>
</table>

† Do not install product in an environment outside the listed ambient temperature.

** Indicates color finish.

### Installation

Prior to installation, verify all components are a compatible system. Configure and pre-test your LED system prior to permanent installation to ensure all components are operating correctly. Install in accordance with the NEC and local regulations.

1. **Turn OFF High Voltage AC Power** at the main breaker.

   **WARNING**   
   Shock Hazard. May result in serious injury or death. Turn off power at circuit breaker before installing this product.

2. **Determine Locations to Install 3 Main Components.** Refer to the ‘System Diagram.’

   - 1) Driver
   - 2) REIGN Dimmer
   - 3) Fixture

   Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.).

3. **Remove Existing Wall Plate and Switch.**

4. **Wire REIGN Dimmer Between Driver and Fixture. Only Use Copper Wiring.** DO NOT CONNECT TO HIGH VOLTAGE POWER.

   - Attach INPUT of dimmer to driver.
   - Attach OUTPUT of dimmer to LED fixture.

   See ‘Wiring Connections’ below & ‘System Diagram.’

### Wiring Connections

[Diagram showing wiring connections]

Cap existing ground wires.

Label will indicate direction to install dimmer.

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5 Replace wiring back into wall box. Break off appropriate fins when ganging multiple dimmers. Screw dimmer and faceplate to wall box.

6 Install Additional Components, Verify Connections, and Turn Main Power ON at Breaker.

Never install low and high voltage wiring in the same wall box. A physical divider must exist when ganging low voltage and high voltage controls.

To detach a fin, grip with pliers and bend back/forth until it detaches. Unlike high voltage dimmers, **de-rating the dimmer maximum load is not required** when ganging low voltage controls.

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**System Diagram**

The following diagram is provided as an example system design. Class 2 compliance requires a Class 2 driver per REIGN dimmer *(e.g. 60W @ 12V, 96W @ 24V)*. Install in accordance with the NEC, and local regulations.

* Driver may not require a fault ground connection. Refer to driver specifications for additional information.

*** Install a Class 2 constant voltage driver compatible with a low voltage PWM controller.

**** No more than one PWM controller/dimmer switch can be attached to a single output of the driver.

‡ Refer to driver specifications for a compatible junction box.

‡‡ See fixture specifications for maximum series run limits.
REIGN™ 12–24V TOUCH DIMMER SWITCH

INSTALLATION GUIDE

Operation

<table>
<thead>
<tr>
<th>On/Off</th>
<th>Tap the (+) or (‒) pad and lights will fade On/Off.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase Brightness</td>
<td>Hold finger to (+) pad until brightness meets desired level. If dimmer is off, hold (+) pad and lights will begin increasing from previous set brightness.</td>
</tr>
<tr>
<td>Decrease Brightness</td>
<td>Hold finger to (‒) pad until brightness meets desired level. If dimmer is off, hold (‒) pad and lights will begin decreasing from previous set brightness.</td>
</tr>
</tbody>
</table>

Troubleshooting

Prior to troubleshooting, ensure a compatible system is installed. Verify compatible fixtures, drivers, controls and additional components were specified correctly.

| Fixture does not illuminate | • Verify the system is wired correctly & ensure polarities are correct.  
                                • Ensure the driver and fixture have the same voltage specifications (12V & 12V, or 24V & 24V). |
| Fixtures illuminate, dimmer controls are unresponsive | • Verify the following connections & ensure polarities are correct: **Driver Output is connected to Dimmer Input**, **Dimmer Output is connected to LED Load**. If the driver is connected to the Dimmer Input than the dimmer controls will not function properly. |
| Fixture is consistently flashing or flickering | • Ensure **no more than a single dimmer is attached to each driver output**.  
                                • Verify a compatible constant voltage driver is installed.  
                                • Ensure a compatible constant voltage dimmable fixture is installed. |
| Fixture is inconsistently flashing or flickering | • Verify all connections are properly secured. Ensure all accessories are properly connected. |
| Fixture is slowly flashing | • Ensure driver is not overloaded. An overloaded driver will cause the internal auto-reset of the driver to trip repeatedly. |
| Shift in brightness of fixture array | • Verify the appropriate size wire gauge (AWG) has been installed. See the ‘Tools & Resources’ page at www.DiodeLED.com for Voltage Drop Charts.  
                                • Ensure fixture length is not exceeding maximum run limit. |
| Driver is buzzing | • Verify the constant voltage driver is compatible with compatible with PWM controls. See the driver specification sheet and check the ‘Dimmability’ specification. |

Additional Resources

Visit the online product page at www.DiodeLED.com for additional product specifications & warranty information.

• **REIGN Touch Dimmer Specification Sheet**
  For full specifications.

• **Voltage Drop Charts**
  Use to specify appropriate wire gauge for installation. Available at the ‘Tools & Resources’ page at www.DiodeLED.com.

QUESTIONS?

Visit www.DiodeLED.com or contact Customer Support at info@DiodeLED.com or 1.877.817.6028 Monday through Friday, 7:00am - 5:00pm PST.

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