SAFETY & WARNINGS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Install in accordance with national and local electrical code regulations.
2. This product is intended to be installed and serviced by a qualified, licensed electrician.
3. Do not modify or disassemble this product beyond instructions or the warranty will be void.
4. Do not use if there is any damage to the fixture or wiring. Inspect periodically.
5. Do not submerge Strip Light in liquids or use the product in the vicinity of standing water or other liquids.
6. Do not install near areas with exposure to chlorinated water. (Salt water environments are approved)
7. All plastics are affected by the elements and may shift in color and other properties after product installation, particularly with direct exposure to sun, chlorinated water, and other chemicals
8. Do not attempt to fix this product in the field.
9. Failure to follow safety warnings, and installation instructions will void the warranty for this product.

QUICK SPECS / MODELS

<table>
<thead>
<tr>
<th>Input</th>
<th>24VDC Constant Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>1.2w/ft. / 2.7w/ft. / 4.4w/ft.</td>
</tr>
<tr>
<td>Ambient Temp †</td>
<td>-4° - 122°F (-20° - 50°C)</td>
</tr>
<tr>
<td>Environment</td>
<td>Indoor/Outdoor/IP65</td>
</tr>
</tbody>
</table>

† Do not install product in environment outside listed temperature.

*NOT FOR USE IN SUBMERSIBLE APPLICATIONS, OR WITHIN 5 FEET OF A SWIMMING POOL.
REQUIRED TOOLS

1. Phillips-head Screwdriver
2. Ruler (Recommended)
3. Wire Stripper (Recommended)
4. Cutting tool if cutting tape light to a specific length.
5. Sealant if cutting tape light to a specific length and installing in a wet location. Recommended sealant is the DI-WPSL, or equivalent.

HANDLE PRODUCT WITH CARE!

DO NOT POWER STRIP LIGHT WHILE ATTACHED TO SPOOL OR TIGHTLY COILED.

DO NOT FOLD, CREASE, OR TWIST LED STRIP LIGHT.

DO NOT COVER STRIP LIGHT WITH ANY MATERIALS.

TOP BENDING NEON BLAZE™ LED Strip Light

DO NOT BEND LED STRIP LIGHT TO A DIAMETER LESS THAN 4 INCHES.

SIDE BENDING NEON BLAZE™ LED Strip Light

DO NOT BEND LED STRIP LIGHT ON A HORIZONTAL PLANE.

DO NOT BEND LED STRIP LIGHT ON A VERTICAL PLANE.

DO NOT BEND LED STRIP LIGHT TO A DIAMETER LESS THAN 3 INCHES.
INSTALLATION

Note: Failure to follow installation instructions may void warranty.

1 TURN POWER OFF AT CIRCUIT BREAKER

SHOCK HAZARD! May result in serious injury or death. Turn power OFF at circuit breaker prior to installation.

2 PREPARE NEON BLAZE™ LED STRIP FOR INSTALLATION

2.1 Before cutting or attaching connectors, ensure that the arrows on the underside of the Strip Light point away from initial connection.

2.2 Skip to 3.3 if not cutting to specific length.

If cutting to length, ensure to cut the Strip Light at the designated cut points only. Cutting anywhere else will cause damage to the Strip Light.

3 CREATE CONNECTION

3.1 INSERT SPACER

Insert spacer directly over LED Strip Light allowing each arm of spacer to slide next to first LED. Spacer must be used to maintain warranty.

3.2 INSERT CONNECTOR

Slide blades of connector directly between LED Strip Light and clear plastic element, then press firmly.

Note: Failure to follow installation instructions may void warranty.
IN INSTALLATION (CONT.)

3.3 COVER CONNECTOR

Connect top and bottom halves of connector cover together completely surrounding connection point.

STRAIGHT WIRE ENTRY

*Tip bending NEON BLAZE™ LED Strip Light shown.

Apply liberal amounts of sealant in these locations.

Press until cover snaps in place.

SIDE WIRE ENTRY

*Tip bending NEON BLAZE™ LED Strip Light shown.

Apply liberal amounts of sealant in these locations.

Press until cover snaps in place.

BOTTOM WIRE ENTRY

*Tip bending NEON BLAZE™ LED Strip Light shown.

Apply liberal amounts of sealant in these locations.

Press until cover snaps in place.
4 MOUNT NEON BLAZE™ LED STRIP LIGHT

**Option A: Bottom U-Clips**

- Screw bottom u-clips to surface.
  
  *Note: It is recommended to use two bottom u-clips for every foot of NEON BLAZE™ LED Strip Light.*

- Insert NEON BLAZE™ LED Strip Light into bottom u-clip.

**Option B: Top U-Clips**

- Place NEON BLAZE LED Strip Light on surface, then place clear top u-clip over Strip Light.
  
  *Note: It is recommended to use two clear top u-clips for every foot of NEON BLAZE™ LED Strip Light.*

- Screw top u-clip to surface.
**INSTALLATION (CONT.)**

NEON BLAZE™ LED Strip Light may be bent to resemble neon lighting. Examples below:

Top bending NEON BLAZE™ LED Strip Light may be bent “up and down” on the vertical axis of the Strip Light.

Side bending NEON BLAZE™ LED Strip Light may be bent “Left and Right” on the horizontal axis of the Strip Light.

**5 CONNECT TO 96” EXTENSION CABLE**

Top bending and side bending connector will have wet location rated plug connector (female) on opposite end.

96” NEON BLAZE™ Extension cable will have wet location rated plug connector (male) on opposite end of splice connection.

Screw connector cap onto extension cable securely.
**ATTACH DRIVER AND LIGHTING CONTROL.**

Verify a compatible driver is installed. Utilize applicable wiring when installing outdoors. (Use of wet location-rated junction box recommended)

**TURN POWER ON AT CIRCUIT BREAKER**

- Ensure an appropriate gauge of wire is installed between strip light and LED driver. See VOLTAGE DROP CHARTS.
- Ensure strip light has not been bent excessively, which could damage circuitry.
- Ensure strip light has not been submerged in any liquid for any amount of time.
- Ensure a compatible driver and/or dimming control is installed. Check for loose connections.
- Ensure driver is not overloaded. An overloaded driver will trip the internal auto-reset (of driver) repeatedly, turning the system on/off.

**TOOLS & RESOURCES**

NEON BLAZE™ SPECIFICATION SHEET
For full specifications.

**VOLTAGE DROP CHART**

For best performance and lumen output, ensure proper wire gauge is installed to compensate for voltage drop of low voltage circuits.

### 24V Voltage Drop & Wire Length Distance Chart

<table>
<thead>
<tr>
<th>Wire Gauge</th>
<th>10 W</th>
<th>20 W</th>
<th>30 W</th>
<th>40 W</th>
<th>50 W</th>
<th>60 W</th>
<th>70 W</th>
<th>80 W</th>
<th>100 W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>.42 A</td>
<td>.83 A</td>
<td>1.3 A</td>
<td>1.7 A</td>
<td>2.1 A</td>
<td>2.5 A</td>
<td>2.9 A</td>
<td>3.3 A</td>
<td>4.2 A</td>
</tr>
<tr>
<td>18 AWG</td>
<td>134 ft.</td>
<td>68 ft.</td>
<td>45 ft.</td>
<td>33 ft.</td>
<td>27 ft.</td>
<td>22 ft.</td>
<td>19 ft.</td>
<td>17 ft.</td>
<td>14 ft.</td>
</tr>
<tr>
<td>16 AWG</td>
<td>215 ft.</td>
<td>109 ft.</td>
<td>72 ft.</td>
<td>54 ft.</td>
<td>43 ft.</td>
<td>36 ft.</td>
<td>31 ft.</td>
<td>27 ft.</td>
<td>22 ft.</td>
</tr>
<tr>
<td>14 AWG</td>
<td>345 ft.</td>
<td>174 ft.</td>
<td>115 ft.</td>
<td>86 ft.</td>
<td>69 ft.</td>
<td>57 ft.</td>
<td>49 ft.</td>
<td>43 ft.</td>
<td>36 ft.</td>
</tr>
<tr>
<td>12 AWG</td>
<td>539 ft.</td>
<td>272 ft.</td>
<td>181 ft.</td>
<td>135 ft.</td>
<td>108 ft.</td>
<td>90 ft.</td>
<td>77 ft.</td>
<td>68 ft.</td>
<td>56 ft.</td>
</tr>
<tr>
<td>10 AWG</td>
<td>784 ft.</td>
<td>397 ft.</td>
<td>263 ft.</td>
<td>197 ft.</td>
<td>158 ft.</td>
<td>131 ft.</td>
<td>112 ft.</td>
<td>98 ft.</td>
<td>82 ft.</td>
</tr>
</tbody>
</table>

**Example: 24V Voltage Drop & Wire Length Distance Chart**

1. Determine load size. Let’s assume load is 55 W. Round up to nearest load.
2. Determine distance from driver to load. Let’s assume the distance is 90 ft.
3. It is recommended to install 12 AWG to eliminate excess voltage drop.
The following diagrams are provided as example system designs. For information regarding larger systems or systems not pictured below, please see our web page or contact technical support. Always review each component installation guide for detailed and up-to-date wiring instructions. Install in accordance with national and local electrical codes.

Traditional ON/OFF Switch System

SWITCHEX® Dimmer/Driver System

OMNIDRIVE® Electronic Dimmable Driver System

REIGN® 24V Dimmer System

1. Driver may not require a fault ground connection. Refer to driver specifications for additional information.
2. Install a compatible Class 2 constant voltage driver. Refer to each driver specification sheet for full power ratings & load deratings.
3. Install a Class 2 constant voltage driver compatible with a low voltage PWM controller/dimmer switch. Refer to each driver specification sheet for full power ratings & load deratings.
4. Determine the number of low voltage outputs of the driver when installing multiple PWM controllers/dimmer switches. No more than one PWM controller/dimmer switch can be attached to a single output of the driver.
5. Install a compatible dimming control or switch. See the ‘Electronic Dimmable Driver / Dimmer Compatibility List’ for compatible dimming controls. See the dimming control manufacturer installation guide for complete wiring instructions.
6. Ensure to load the driver at least 60% of the labeled load for proper dimming performance (required for dimmable installations only).
7. Refer to driver or controller specifications for a compatible junction box.
8. See fixture specifications for maximum series run limits.