INSTALL NOTES: VE

We have developed this series of field installation guidelines to assist you in correctly installing fixtures and transformers, ensuring customer satisfaction and trouble-free service. If you have any questions, please call your local distributor or the FX TechLine at 800-733-2823 before proceeding. Follow all NEC guidelines and local electrical codes. For more information, visit: fxl.com

TYPICAL INSTALLATION:

INSTALLATION GUIDELINES:

Securing the VE
The VE should always be faced with the light shining downward. Using the included Rize™ stainless steel cable, loop the cable around the top eyelet and secure as shown in the diagram on the following page. Do not hang from the socket wire.

Ensure the cable assembly is securely fastened and tight. Failure to do so may cause the fixture to come loose and fall. Follow all local building codes for the hanging of this fixture type.

Changing or removing the color and beam adjustment lenses:
To remove, add, or change a color or beam angle lens, loosen set screw and pull down on lens cap. If a copper sleeve is attached, first remove the sleeve by unfastening the two top screws and lifting the sleeve over the fixture. Once the lens cap is removed, twist the top lens ¼ turn counterclockwise to release the bayonet lock and lift the lens(es) off. Repeat to remove multiple lenses. Once removed, reattach the new color and/or beam angle lens(es) by lining up the bayonet mount and twisting clockwise ¼ turn while gently pressing down. Reinstall the lens cap by firmly pressing it past the double O-rings and flush with main fixture. Retighten the set screw with the top of the screw flush with the surface. Do not over tighten the set screw.

The LED board in this product is designed to offer years of use without replacement. Should you have a need to replace the LED board, please contact your local FX distributor.

The VE fixture is designed to be used as a down light only. Using the VE as an up light may cause failure.

RISK OF FIRE WARNING: DO NOT USE FX FIXTURES WITH ANY STYLE OF TRANSFORMER THAT EXCEEDS 15 VOLTS ON THE SECONDARY.

SAVE THESE INSTRUCTIONS:

WARNING – To reduce the risk of FIRE OR INJURY TO PERSON:
• Turn off/unplug and allow to cool before replacing lamp.
• Lamp gets HOT quickly. Contact only switch/plug when turning on.
• Do not touch hot lens, guard, or enclosure.
• Keep lamp away from materials that may burn.
• Do not touch the lamp at any time. Use a soft cloth. Oil from skin may damage lamp.
• Do not operate the luminaire fitting with a missing or damaged shield.

WARNING – Risk of Electric Shock:
• Install all luminaires 10 feet (3.05 m) or more from a pool, spa, or fountain.
• A luminaire shall not use tungsten halogen lamps unless the luminaire is marked for such lamps.
• Supply connection and electrical components are located above ground level, except for secondary cord that is suitable for wet locations.

LOW VOLTAGE CABLE SHALL:
1. Be protected by routing in close proximity to the luminaire or fitting, or next to a building structure such as a house or deck.
2. Not be buried except for a maximum 6 inches (15.2 cm) in order to connect to the main low voltage cable.
3. Have the length cut off so that it is connected to a connector within 6 inches (15.2 cm) from a building structure, a luminaire, or fitting.

CONSERVEZ SOINGNEUSEMENT CES INSTRUCTIONS:

AVERTISSEMENT – Pour réduire le risque D’INCENDIE OU DE BLESSURE:
• Éteignez/débranchez la lampe et laissez-la refroidir avant de la remplacer.
• La lampe devient rapidement BRÛLANTE. Ne touchez que l’interrupteur/la prise lors de la mise sous tension.
• Ne touchez pas la lentille, le dispositif de sécurité ni le boîtier lorsqu’ils sont chauds.
• N’approchez pas la lampe de matériaux pouvant s’enflammer.
• Ne touchez jamais la lampe. Utilisez un chiffon doux.
• La graisse de la peau peut endommager la lampe.
• N’utilisez pas le raccord du luminaire si le boulon est absent ou endommagé.

AVERTISSEMENT – Risque d’électrocution:
• Installez tous les luminaires à 3,05 m (10 pieds) ou plus d’une piscine, d’un spa ou d’une fontaine.
• Les luminaires ne doivent pas utiliser de lampes tungstène-halogène à moins que le luminaire soit prévu pour ce type de lampe.
• Le raccordement au réseau électrique et les différents matériaux électriques doivent être installés au-dessus du niveau du sol, exception faite pour les fils ou réseaux secondaires qui conviennent aux lieux humides.

LE CÂBLE BASSE TENSION DEVRA:
1. Être raccourci de manière à être branché au câble basse tension principal.
2. Être raccourci de manière à être branché à un connecteur situé à moins de 15,2 cm (6 pouces) d’une construction, d’un luminaire ou d’un raccord.
INSTALL NOTES: LED SYSTEM LAYOUT

TRANSFORMERS:

Single Transformer
When using only one transformer, it is very important to center the transformer on the wattage load. If the project calls for 135 watts in both front and back yard, the transformer should be centered on the side of the house that will receive the most lighting. A common mistake is to locate the single transformer on the service side of the house or in the garage, which might result in excessively long cable runs to reach lighted areas. The primary goal in laying out low voltage systems is to minimize cable runs because of voltage drop and cost.

Multiple Transformers
A common mistake in laying out multiple transformer circuits is to group several transformers in one location because of utility or visual considerations only. As with any low voltage layout, the prime directive should be to locate the transformers as close to the fixtures as possible in order to minimize cable runs. The other multi-transformer layout consideration is “use zoning.” Having several transformers allows the client to selectively control light in separate areas. This approach is similar to irrigation design in that the goal is to individually control areas that have similar needs. In lighting, a recreation area has different lighting needs than does a front entry. Therefore, the lights that serve these different lighting use areas need to be on separate transformers and switch controls. Use of the FX Luxor transformer offers the alternative solution, allowing zoning and dimming capabilities on a single transformer.

CIRCUITING GUIDELINES:

<table>
<thead>
<tr>
<th>Loads PER CABLE</th>
<th>Add cable runs as necessary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Close-Zone 0–40’ using voltage tap 12</td>
<td>12 180 watts max. 10 300 watts max.</td>
</tr>
<tr>
<td>Mid-Zone 40–80’ using voltage tap 12</td>
<td>12 95 watts max. 10 150 watts max.</td>
</tr>
<tr>
<td>Far-Zone 80–120’ using voltage tap 13</td>
<td>12 100 watts max. 10 160 watts max.</td>
</tr>
<tr>
<td>Out There-Zone 120–160’ using voltage tap 14</td>
<td>12 110 watts max. 10 175 watts max.</td>
</tr>
</tbody>
</table>

CABLE LOCK:

- Pull adjustment pin back and pass wire through kwik-loc™
- Loop wire through anchor
- Pull adjustment pin back and pass wire through kwik-loc™
- Apply tension
- To adjust, take the load off and pull the tail slightly to disengage teeth, then release using adjustment pin

LED LIFE:

- For maximum light output, tune lighting circuits to provide between 10 and 15 volts as measured at lamp terminals when all of the lamps on the circuit are operating.
- Voltage can be regulated by adjusting circuit load/run.
- To determine circuit voltage, use a digital voltmeter.

CONNECTORS:

- Connectors used to connect a luminaire or output circuit component to the main low voltage cable shall be copper or copper alloy, or the equivalent.
- When installed, the connection shall guard against inadvertent shorting of current-carrying parts.
- Wire nuts are not to be used unless provided with corrosion protection, intended for outdoor use, and designed for direct burial.