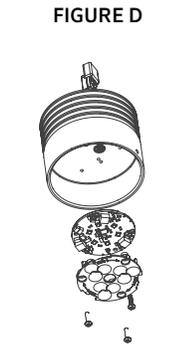
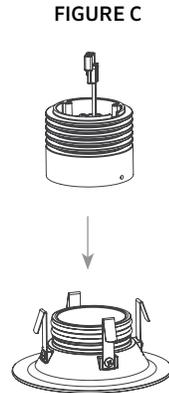
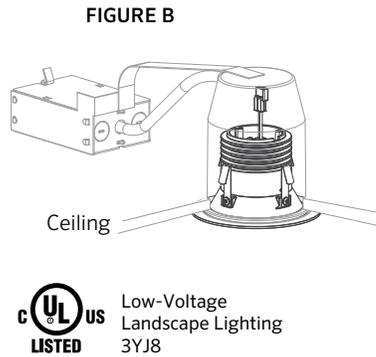
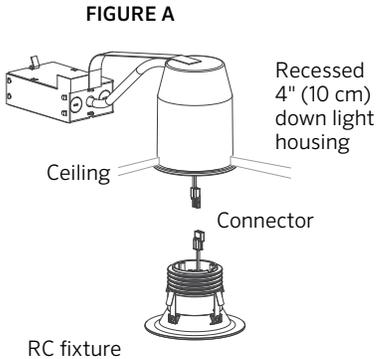


# INSTALLATION NOTES: RC RECESSED DOWN LIGHT FXLuminaire®

We have developed this series of field installation guidelines to help you correctly install fixtures and transformers, ensuring customer satisfaction and trouble-free service. If you have 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](http://fxl.com).

## TYPICAL INSTALLATION:



## INSTALLATION GUIDELINES:

This product is intended to be installed in standard 4" (10 cm) recessed retrofit or new-construction housings. Please refer to documentation provided with housing for housing installation information.

**The RC accepts 10- to 15-volt power only. Please ensure a step-down transformer is providing power to the fixture.**

### Installing the Fixture

**Figure A** – Connect the RC fixture to the down light housing using the attached two-pole quick-connect.

**Figure B** – Fully insert the fixture body inside the housing. The mounting tabs will engage with the inside of the housing holding the fixture in place. **To remove the fixture from the housing, pull firmly by hand in the downward direction.** Disconnect the quick-connect to service the fixture.

### Accessing the LED Board and Optics

**Figure C** – Once the fixture is removed from the housing, loosen the setscrew and pull the trim firmly by hand to separate from the fixture body.

**Figure D** – The LED optics are now accessible and can be changed by hand. To remove the LED board, remove the screws and pull the board by hand to separate from the fixture body.

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

### DO NOT EXCEED 15 VOLTS IN THIS FIXTURE

The LEDs in this product function ideally when the incoming voltage is between 10-15 volts. Voltages outside of this range may damage the LEDs, shorten their life, and cause unsatisfactory performance. **The use of improper voltage voids the product warranty. Use only a UL 1838 approved power supply.**

## SAVE THESE INSTRUCTIONS:

### WARNING – To reduce the risk of FIRE OR INJURY TO PERSON:

- Turn off/unplug and allow to cool before replacing lamp/LEDs.
- Lamp/LEDs gets HOT quickly. Contact only switch/plug when turning on.
- Do not touch hot lens, guard, or enclosure.
- Keep lamp/LEDs away from materials that may burn.
- Do not touch the lamp/LEDs at any time. Use a soft cloth. Oil from skin may damage lamp/LEDs.
- Do not operate the fixture fitting with a missing or damaged shield.

### WARNING – Risk of Electric Shock

- Install all fixtures 10 feet (3.05 m) or more from a pool, spa, or fountain.
- A fixture shall not use tungsten halogen lamps unless the fixture 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 fixture or fitting, or next to a building structure.
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 fixture, or fitting.

## CONSERVEZ SOIGNEUSEMENT 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 bouclier 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 matériels 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 protégé en le faisant passer à proximité du luminaire ou du raccord, ou à côté d'une construction comme une maison ou une terrasse.
2. Ne pas être enterré sauf à un maximum de 15,2 cm (6 pouces) pour être branché au câble basse tension principal.
3. 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.

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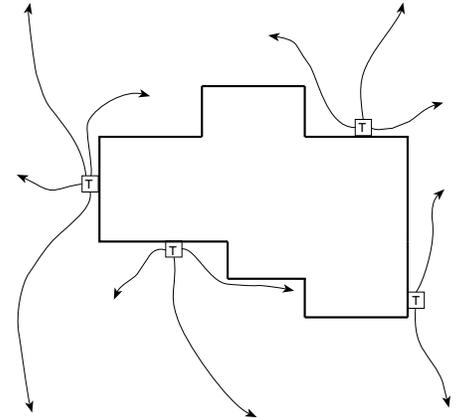
## TRANSFORMERS

### 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 the front and back yards, 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.

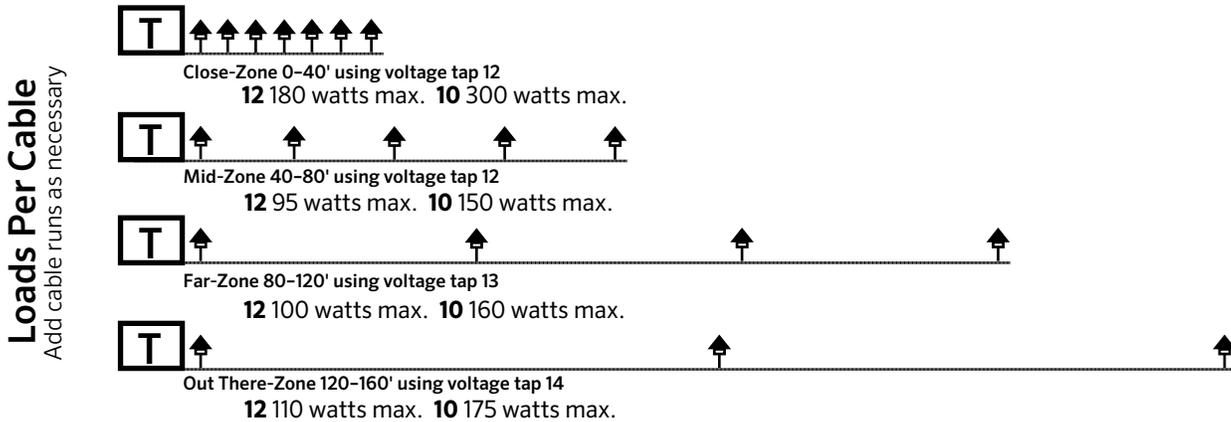
### Multiple Transformers

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 a front entry. Therefore, the lights that serve these different lighting use areas need to be on separate transformers and switch controls.



Sample diagram with transformer placement

## CIRCUITING GUIDELINES



## LAMP LIFE

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