



Controls Accessory (LCA Series, Controller Box)



BEFORE YOU BEGIN

Read these instructions completely and carefully.
Save these instructions for future use.

⚠ WARNING / AVERTISSEMENT

RISK OF FIRE OR ELECTRICAL SHOCK

- Turn power off before inspection, installation or removal.
- Properly ground electrical enclosure.
- Follow all NEC and local codes.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- Fixture may fall down if not installed properly, follow installation instructions.
- Wear safety glasses and proper aid during installation and maintenance.
- Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit it. Check for enclosed wiring and components. Install this kit only in the luminaires that has the construction features and dimensions shown in the photographs and/or drawings.
- Above ceiling access required.

RISQUES D'INCENDIE OU DE DÉCHARGES ÉLECTRIQUES

- Coupez l'alimentation avant d'inspecter, installer ou déplacer le luminaire.
- Assurez-vous de correctement mettre à la terre le boîtier d'alimentation électrique.
- Respectez tous les codes NEC et codes locaux.
- Ne pas percer ou altérer les trous d'un boîtier contenant fil ou composant électrique durant l'installation.
- Le luminaire peut tomber s'il n'est pas installé correctement, suivre les instructions d'installation.
- Porter des lunettes de sécurité et les aides appropriées lors de l'installation et de l'entretien.
- Câblage du luminaire et pièces électriques peuvent être endommagés lors du fraisage pour l'installation du kit de conversion à DEL. Vérifier le câblage et les composants clos.
- Installez ce kit uniquement dans les appareils d'éclairage qui a les caractéristiques de la construction et les dimensions indiquées dans les photographies et/ou dessins.
- Accès requis au-dessus du plafond.

Save These Instructions

These instructions do not purport to cover all details or variations in components nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problem arise which are not covered sufficiently for the purchaser's purpose, the matter should be referred to Current. Current does not claim liability for any installation not performed according to this guide or not performed by a qualified electrician.

Prepare Electrical Wiring



Electrical Requirements

- The LCA Controller Box must be supplied with 120V/277V, 50/60Hz, for LCAMBXXXXFM.



Grounding Instructions

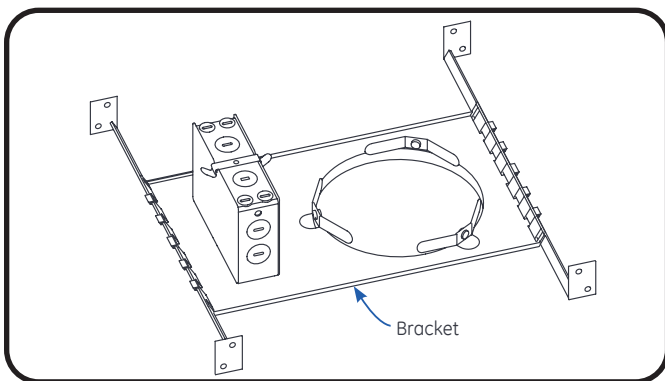
- The grounding and bonding of the overall system shall be done in accordance with National Electric Code (NEC) Article 600 and local codes.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. CAN ICES-005 (A) / NMB-005 (A).

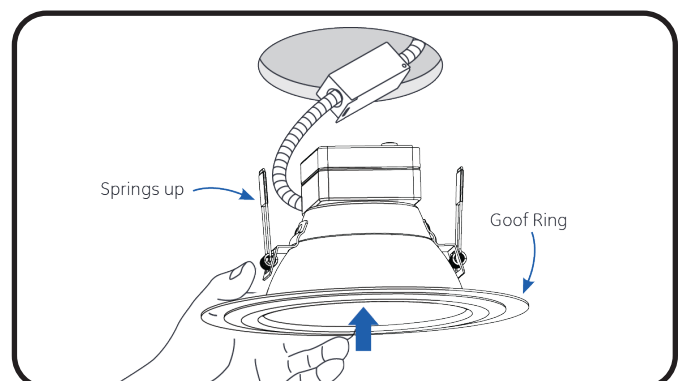
This device complies with part 15 of the FCC rules for the United States and Industry Canada (IC) license exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment. This product is intended for commercial use only.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

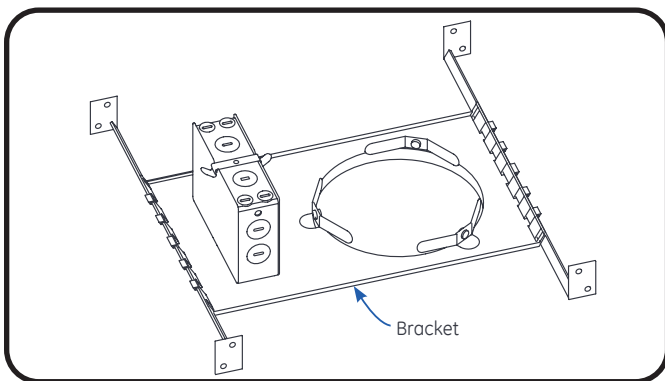
Installation



① Part identification.

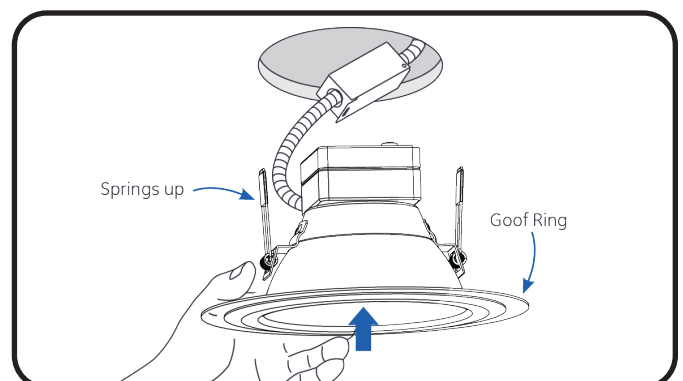


② Disconnect incoming power to the fixture at the panel.



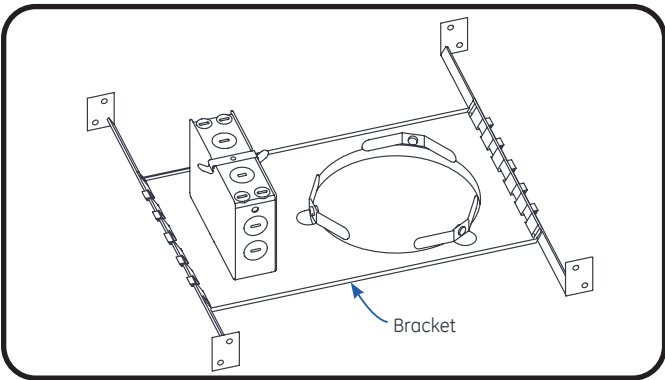
③ There are two mounting options for installing the unit in the ceiling.

Option 1 (above): Fasten box to stud/member with screws. Use the two available holes in the box assembly to install two, #8 self-tapping screws and drive those into a stud or other supporting member. These holes may also be used for attaching to code approved mounting clips.

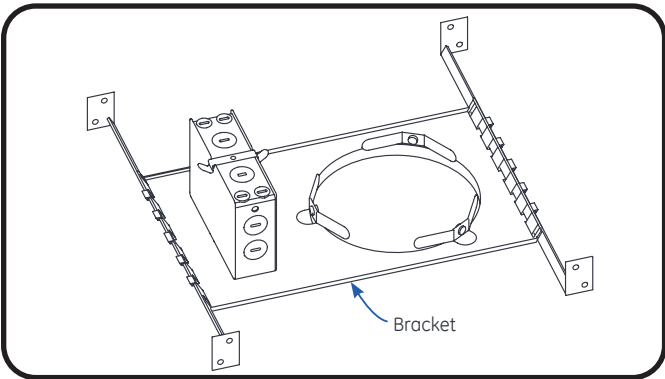


Option 2 (above): Mounting Controller Box With Cable. Use a flat head screw driver to fold the tabs (tab on each corner) on the box sides into a vertical position. Use to tie mounting cable or attach to rigid structure.

Installation - Continued



4 Make supply (input) connections to the controller within the Controller Box Assembly. The installer will need to remove the top cover of the Controller Box. There will be leads provided with 2-port connectors* for the installer to use to tap into for Black (hot) and White (Neutral) leads. The installer will also need to tap into a 4-port connector provided for the Ground connection. The installer should make certain to reference the label on the Controller Unit as there will be designation marks directing what leads are for "Input" and what leads are for "Output".



5 Make electrical output to fixture connections between the load (i.e. fixture) and Controller Box Assembly. The installer shall make the connection between the Black (Hot), White (Neutral) and Green (Ground) leads of the Controller Box Assembly and the corresponding fixture.

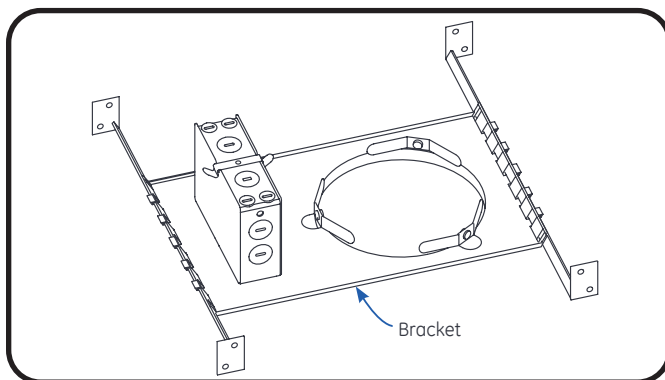
- Installation Tips:**
- Refer to Wiring Diagram to identify proper connections.
 - Installer should take note that there is a wire barrier or space within the enclosure that separates Class 1 and Class 2 wiring.

***2-Port & 4-Port Connectors Wire Compatibility**

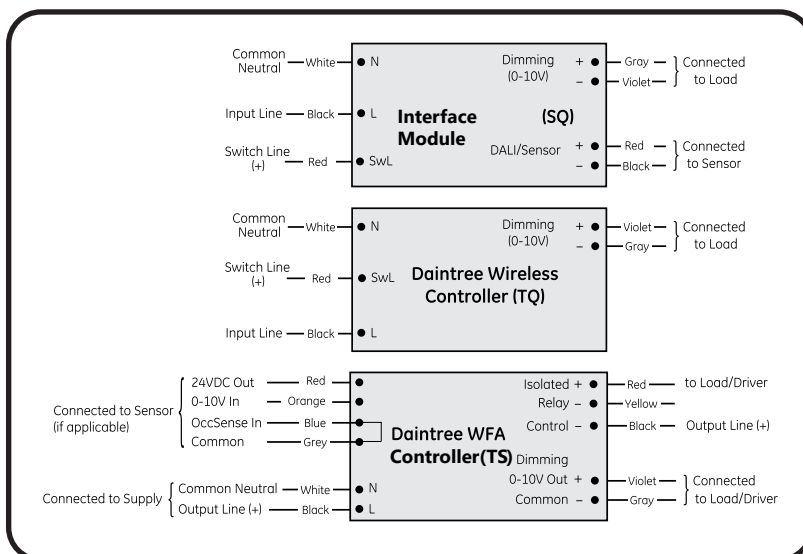
Wire Range		
	1/2" strip length	3/8" strip length
Solid	12-20 AWG	12-22AWG
	12-14 AWG (≤19 strand)	12-14 AWG (≤19 strand)
Stranded	16 AWG (≤19 strand)	16 AWG (≤26 strand)
	18 AWG (7 strand)	18 AWG (≤19 strand)
Tin Bonded	14-18 AWG (≤19 strand)	14-20 AWG (≤19 strand)

- Installation Tips:**
- Refer to Wiring Diagram to identify proper connections.
 - The installer should note that there are 4-port connectors spliced in the output leads in the Controller Box to enable the installer to hook up the Controller Box unit to multiple fixtures. Use additional knockouts provided for these connections. The max output load is dictated by the controller unit - reference product label for output capacity. Reference Wire Compatibility table in Step 3 to understand the proper wire to use with the connectors.
 - Installer should take note that there may be a barrier within the enclosure that separates high and low voltage wiring. If no barrier is provided keep the high and low voltage wires spaced apart within the box.

Installation - Continued



- ⑥ Make 0-10V dimming electrical connections between the load (i.e. fixture) and Controller Box Assembly. The installer shall make the connection between the Violet (+), and Gray (-) leads of the Controller Box Assembly and the corresponding fixture.



- ⑦ Wiring Diagram

- ⑧ Position and install sensor in the ceiling using provided hardware (if applicable). Follow applicable installation instructions for sensor.

For Product or Technical Questions:

E: lightingproinfo@currentlighting.com
T: +1 888 694 3533