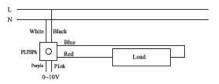


WARNING

- Installation, service, and maintenance of luminaries should be performed by a qualified licensed electrician.
- Check lamp before installation. If there is any damage, do not install. If the glass lamp tube is broken, the lamp must be disposed of immediately.
- There are tubes, operation instructions, and field applied double-ended or single-ended labels in this retrofit kit.

CAUTION

- Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.
- TYPE A LAMP intended for direct substitution of a fluorescent lamp and operation from the integral ballast without any modifications to the fluorescent luminaire.
 - o Do not install this lamp in a pre-heat luminaire.
 - o This lamp only operates on electronic ballasts. If the lamp does not light when the luminaire is turned on, remove the lamp from the luminaire and contact the manufacturer.
 - o If the lamp or luminaire exhibits undesirable operation such as buzzing and flickering, immediately turn off the power, remove the lamp from the fixture, and contact the manufacturer.
 - This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz.
- TYPE B LAMP intended for operation in luminaries with traditional fluorescent-type lampholders wired directly to the branch circuit. This includes both factory-wired luminaries as well as this converted for this purpose under a retrofit program.
 - o Do not make or alter any holes in the wiring enclosure or components during installation.
 - Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead, installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.
 - Install this kit only in the luminaries that have the construction features and dimensions shown in the photographs and/or drawings, and where the input rating of the retrofit kits down not exceed the input rating of the luminaire.
 - To avoid potential fire or shock hazard, do not use this retrofit kit in luminaries employing shunted bipin lampholders. Instant-start ballasts can be identified by the words "Instant Start" or I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself or may be combined with the marking for the lamps with which the ballas is intended to be used. For example, F40T12/IS.
 - Only use the control provided with or specified by these instructions to control this lamp. The lamp will not operate properly when connected to a standard (incandescent) dimmer or dimming control. Only operate with specific dimmer PLTSPA manufactured by PLT Solutions.





WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS

 THIS RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.

NOTICE

- Suitable for damp locations. Not for emergency lighting.
- Keep lamps away from flames and high temperatures. Do not place any objects on lamps.
- Clean luminaire with a dry cloth. Do not clean lamps with corrosive chemicals.
- Minimum Compartment Dimensions The units covered by this report were intended to retrofit surface
 mount, Type IC or non-IC recessed mount listed fluorescent luminaries that use a maximum of 4 tubular
 lamps. The minimum lamp compartment dimensions are:

Model Number	MINIMUM LAMP COMPARTMENT DIMENSIONS [LENGTH x Width x height] [inch]	Lamp Quantity	Lamp-to-Lamp Spacing [inch]
PLTSPI136 PLTSPI236	24 x 22.4 x 3	4	2.8
PLTSPJ136	36.2 x 22.4 x 3	4	5.5
PLTSPK136 PLTSPK236	47.6 x 20.9 x 3.9	4	3.5

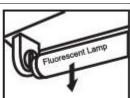
Installation Instructions

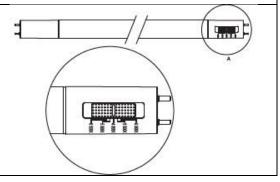
- 1. Make sure the power is OFF.
- 2. Remove lens or diffuser (if applicable).
- 3. Remove existing fluorescent lamps from the luminaire.
- 4. If using the lamp as a Type A (plug-and-play) lamp, you can move on to step 5.

If using the lamp as a Type B (ballast bypass), the ballast must be removed, and the fixture rewired. See ballast bypass mode wiring diagrams in Wiring Diagrams section for how to wire the fixture.

5. Move the paddle to the desired color temperature.









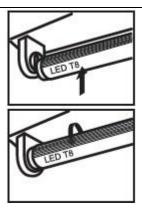
WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS

- 6. Place LED lamp in the luminaire and insert lamp pins into the luminaire lamp holders.
- 7. Rotate the LED lamp until it locks into place. Ensure that the lamp front points away from the back of the luminaire.

NOTE: Install one LED T8 replacement for each fluorescent lamp removed.

8. Turn the power ON.

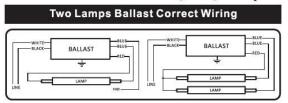
Suggestion: Please use a "jumper" or shunted socket. When used as a direct replacement (Type A), this lamp can only be compatible with instant start electronic ballasts, and the bi-pin lamp bases are not internally electrical connected.

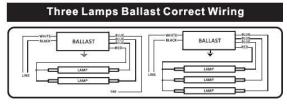


Wiring Diagrams

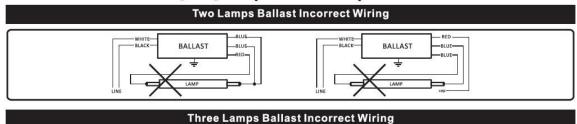
Instant Start Ballast Wiring

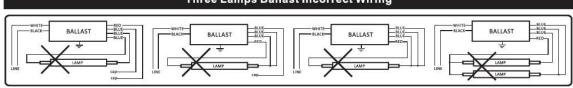
Instant Start Ballast Wiring Diagram (Correct)





Instant Start Ballast Wiring Diagram (Incorrect)





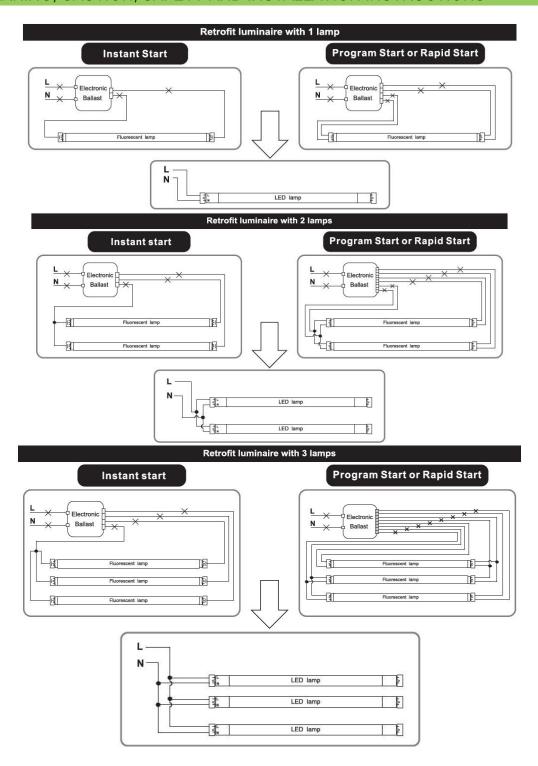
Ballast Bypass Mode Wiring

Single-ended Wiring

The below ballast wiring diagrams represent typical configurations. The actual ballast wiring varies according to the ballast model. The socket should be non-shunted.

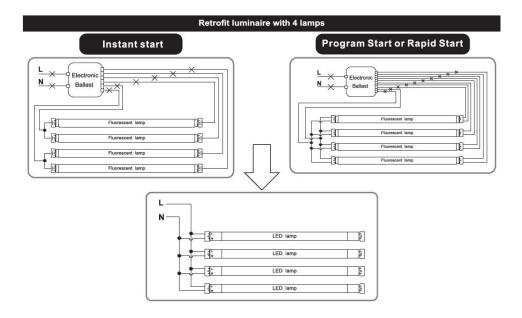


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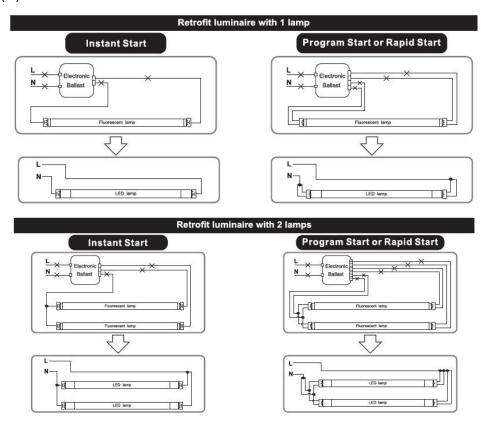


WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS



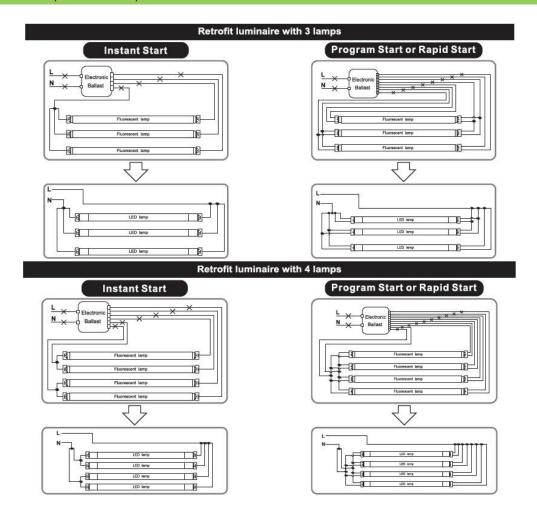
Double-ended Wiring

The below ballast wiring diagrams represent typical configurations. The actual ballast wiring varies according to the ballast model. If the socket is in good condition, it does not need to be changed in order to operate double-ended lamps, regardless of the type of socket. Please make sure one side of the fixture is connected to Live (L) and the other side to Neutral (N).





WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS



FCC Warning

This device complies with Part 15 of the FCC Rules when used as TYPE B lamp. Operation is subject to the following 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.

⚠ WARNING

- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- To reduce the risk of death, personal injury, or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards, read all warnings and instructions included with and on the fixture box and all fixture labels.
- Proper grounding is required to ensure safety.
- Power must be turned off at the breaker before installation or maintenance.
- This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.



WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS

- Wear gloves and eye protection at all times while installing, servicing, or performing maintenance on the luminaire, and avoid direct eye exposure to the light source while it is on.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not install damaged product. Inspect luminaire for damage that may have occurred during transit. If damaged, contact the manufacturer immediately.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible
 contingency to meet in connection with installation, operation, or maintenance. Should further information be
 desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's
 purposes, contact the manufacturer.

↑ ADVERTENCIA

- Antes de instalar, reparar o realizar el mantenimiento de rutina de este equipo, siga estas precauciones generales.
- Para reducir el riesgo de muerte, lesiones personales o daños a la propiedad por fuego, descarga eléctrica, caída de piezas, cortes / abrasiones y otros peligros, lea todas las advertencias y instrucciones incluidas con y en la caja del dispositivo y todas las etiquetas del dispositivo.
- Se requiere una conexión a tierra adecuada para garantizar la seguridad.
- Se debe apagar la energía en el disyuntor antes de la instalación o el mantenimiento.
- Este producto debe ser instalado de acuerdo con el código de instalación aplicable por una persona familiarizada con la construcción y operación del producto y los peligros involucrados.
- Utilice guantes y protección para los ojos en todo momento durante la instalación, el servicio o el mantenimiento de la luminaria, y evite la exposición directa de los ojos a la fuente de luz mientras está encendida.
- Para evitar daños o abrasiones en el cableado, no exponga el cableado a bordes de láminas de metal u otros objetos afilados.
- No instale un producto dañado. Inspeccione la luminaria en busca de daños que puedan haber ocurrido durante el tránsito. Si está dañado, comuníquese con el fabricante de inmediato.
- Estas instrucciones no pretenden cubrir todos los detalles o variaciones en el equipo ni proporcionar todas las posibles contingencias a cumplir en relación con la instalación, operación o mantenimiento. Si desea obtener más información o si surgen problemas particulares que no están suficientemente cubiertos para los propósitos del comprador o propietario, comuníquese con el fabricante.