

## LED PLS BYPASS LAMP INSTALLATION GUIDE – WARNING

**NOTE:** This retrofit kit is for a 2 PIN MOUNT and can replace 7W and 9W CFL lamps with G23 bases.

**CAUTION** – IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT THE MANUFACTURER.

**WARNING** – Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician. Installation should be performed only by a qualified electrician in accordance with the National Electrical Code and relevant local code.

**WARNING** – Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.

**WARNING** – To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

- Disconnect power at the source before installation, inspection or removal. Do not simply switch off fixture.
- This item is rated at 120-277V. Installer must determine whether line voltage 120-277V is available at the luminaire before installation.
- Not intended for use with emergency exit fixtures or emergency exit lights.
- Not for use with luminaire ballast.
- Do not use if product is damaged.
- This lamp is non-dimmable. Not for use with dimmers.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- "This luminaire has been modified to operate LED lamps" shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance including re-lamping.
- Risk of fire or electric shock. Do not open or modify. No user serviceable parts inside.
- Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors.
- SUITABLE FOR DAMP LOCATIONS. Suitable for use in wet locations when used in an outdoor-rated fixture. Not for use where directly exposed to the weather or water.
- Complies with Part 15 of FCC. 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.
- No external weight or mechanical force should be applied to lamp or components.
- THE RETROFIT ASSEMBLY IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY UL OR AUTHORITIES HAVING JURISDICTION.

## LED PLS BYPASS LAMP INSTALLATION GUIDE – INSTALLATION STEPS

- 1) Read all WARNINGS before continuing this section.
- 2) Ensure fixture is 120-277V.
- 3) Make sure POWER IS TURNED OFF AT THE SOURCE.
- 4) Remove lens if applicable, remove cover and fluorescent lamp.
- 5) Before rewiring, check the ballast type and refer to the relevant diagram.
- 6) Before rewiring, please check the number of lamps per fixture and refer to the relevant diagram.
- 7) If fixture is new without ballast, please refer to Cf. Diagram 1.
- 8) If fixture ballast type is magnetic please refer to Cf. Diagram 2.
- 9) This device is powered by two pins; Install lamp into the wired lampholder end.
- 10) Visibly affix "Modification Sticker" and reinstall housing cover and lens if applicable.
- 11) Return power back to source and installation is now complete.

Diagram 1 – New fixture without ballast wiring.

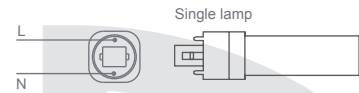
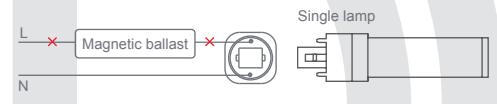
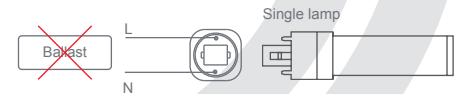


Diagram 2 – Magnetic ballast fixture wiring modification

Cut all wires that connect ballast. Cut wire away from lampholder



Rewire power source directly to wires leading to lampholders



**NOTE:** This retrofit kit is a hybrid product meaning it can work with a magnetic CFL ballast or run off line voltage. For installation with a magnetic CFL ballast, please refer to the LED PLS DIRECT LAMP INSTALLATION GUIDE section. For line voltage installation (ballast bypass), please refer to the LED PLS BYPASS LAMP INSTALLATION GUIDE section.

**NOTE:** Ce Kit Retrofit est un produit hybride, ceci signifie qu'il peut fonctionner sur ballast magnétique CFL ou directement sur le secteur. Pour l'installation avec une ballast magnétique CFL, veuillez-vous référer au GUIDE D'INSTALLATION DIRECT DES LAMPES LED PLS. Pour une installation sur le secteur (contourner la ballast), veuillez-vous référer au GUIDE D'INSTALLATION BYPASS DES LAMPES LED PLS.

## LED PLS DIRECT LAMP INSTALLATION GUIDE – WARNING

**NOTE:**

- This retrofit kit is for a 2 PIN MOUNT and can replace 7W and 9W CFL lamps with G23 bases.
- This lamp is non-dimmable. Not for use with dimmers.
- Operates on magnetic ballasts only.
- This lamp is not compatible with luminaires that use a remote starter.
- Suitable to replace compact fluorescent lamps as specified on the product label.

**CAUTION** - IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT THE MANUFACTURER.

**CAUTION** - RISK OF FIRE. DO NOT INSTALL IN A PRE-HEAT LUMINAIRE.

**WARNING** - RISK OF FIRE. USE ONLY IN PLACE OF COMPACT FLUORESCENT LAMPS SPECIFIED ON LABEL. SEE INSTRUCTIONS.

THIS LAMP ONLY OPERATES ON MAGNETIC BALLASTS. IF LAMP DOES NOT LIGHT WHEN THE LUMINAIRE IS ENERGIZED, REMOVE LAMP FROM LUMINAIRE AND CONTACT LAMP MANUFACTURER OR QUALIFIED ELECTRICIAN.

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 – 30MHZ.

THESE DEVICES ARE NOT INTENDED FOR USE WITH EMERGENCY EXIT FIXTURES OR EMERGENCY EXIT LIGHTS.

LAMPS MUST BE OPERATED WITHIN AN AMBIENT FIXTURE TEMPERATURE OF -4°F (-20°C) AND 95°F (35°C).

**INSTALLATION INSTRUCTIONS:**

1. Switch-off power to luminaire.
2. Remove the cover lens (if provided).
3. Remove existing CFL lamp(s) from luminaire. Note: Verify that the CFL type is listed on the LED lamp label.
4. Confirm the lampholder has a G23 socket.
5. Install LED lamp (one for each CFL lamp removed, ensure pins are firmly seated in lampholders).