SINCE 1945 KEYSTONE | COMBODRIVE X3 PLUG & PLAY OR LINE VOLTAGE COMPATIBLE | POWER SELECT | COLOR SELECT

CATALOG NUMBERS: KT-LED15PST8-U1G-8CSJ-X3

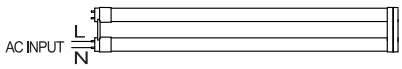
1. Product Features:

- UL certified
- Full glass housing: No Aging, Yellowing, Bending.
- Two operation models:

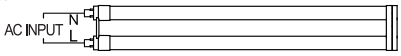
--Direct Replacement Mode (Mode I)
--Plug-n-Play replacement
--Compatible with instant start electronic ballast

--By Pass Mode (Mode II)
--Direct connect with the mains: 120−277VAC 50/60Hz (universal voltage input)

Single ended:



Double ended:



2. Products Applications:

Widely used in residential buildings, offices, shopping malls, supermarkets, hospitals, assembly lines, warehouses, etc. for energy saving illumination.

3. Installation Instructions:

Please completely comply with these instructions and notes to ensure that the product is operated in a safe condition.

4. Safety Information:

1). Check the lamp before installation, if there is any damage caused during transportation, do not install.
2). Maintenance should be carried out by technical personnel only.
3). Do not stare at the light source with bare eyes for a long time, or beam to others' eyes.
4). Do not place any objects on the lamp.
5). Keep the lamp away from flame or high temperature objects.
6). Only replace with same type of LED tube! Risk of electrical shock!
7). If the glass lamp tube is broken, the lamp must be disposed of immediately!

5. Maintenance Notes:

1). Turn off power before any maintenance.
2). Clean luminaire with dry cloth.
3). Do not clean the lamp with corrosive chemicals.

⚠ Safety Precautions:

For your and others' safety, please read the precaution carefully before installation.

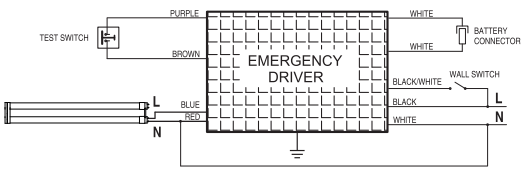
For Direct Replacement Mode (Mode I)

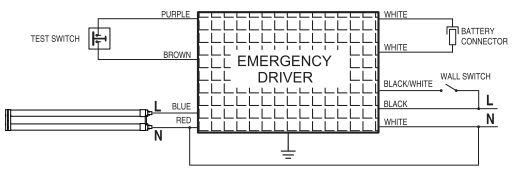
1). WARNING: Risk of shock. Disconnect power before installation.
2). WARNING: Risk of fire, use only in place of fluorescent lamps specified on label. Risk of electric shock. Suitable for damp locations.
3). LED T8 U-Bend for use only with products described and installed in accordance with product specifications. LED T8 U-Bend to be operated with fluorescent electronic ballast.
4). This device complies with part 18 of the FCC Rules.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.

For By Pass Mode (Mode II)

1). Product should be installed by qualified electrician.
2). Turn off power before commencing work. Ensure all connections are secure and wired correctly before restoring power.
3). 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.
4). Only use the control provided with or specified by these instructions to control this lamp. This lamp will not operate properly when connected to a standard (incandescent) dimmer or dimming control. Only operate with specific dimmer KTD-TLED-FF1-VDIM manufactured by Keystone Technologies.
5). Suitable for emergency lighting with KT-EMRG-LED-5-500-AC-IP or KT-EMRG-LED-5-500-AC/DF-IP or KT-EMRG-LED-12-1200-AC-IP or KT-EMRG-LED-12-1200-AC/DF.

Wiring Diagrams





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The units covered by this report were intended to retrofit surface mount, Type IC or non-IC recessed mount Listed fluorescent luminaires that use maximum four tubular lamps, the minimum lamp compartment dimensions are tabulated below.

Model Number	Min. Lamp compartment of Luminaire, overall dimensions, (Length x Width x Height cm)	Maximum LED Lamp Quantity in Luminaire
KT-LED15PST8-U1G-8CSJ-X3	121 x 53 x 10	4

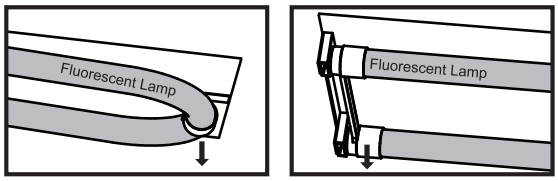
DIRECT REPLACEMENT Mode (Mode I)

INSTALLATION INSTRUCTIONS

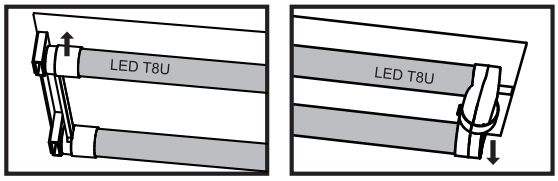
1) Make Sure Power is OFF.

2) Remove lens or diffuser (if applicable)

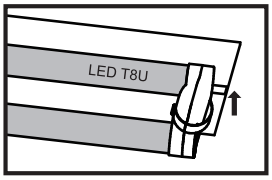
3) Remove existing fluorescent lamps from the luminaire.



4) Bring LED lamp to luminaire,ensure that the LED lamp front points away from the back of the luminaire and insert lamp pins into luminaire lamp holders.



5) Insert lamp holder that on the other side of lamp pins into metal hook of the luminaire.



6) Place lens or diffuser back in place (if applicable)

7) Power ON.

DO NOT INSTALL THIS LAMP IN A PRE - HEAT LUMINAIRE.
N'INSTALLEZ PAS CETTE LAMPE DANS UN APPAREIL D'ÉCLAIRAGE DE PRÉCHAUFFAGE.
THIS LAMP ONLY OPERATES ON ELECTRONIC BALLASTS. IF LAMP DOES NOT LIGHT WHEN THE LUMINAIRE IS ENERGIZED, REMOVE LAMP FROM LUMINAIRE AND CONTACT LAMP MANUFACTURER OR QUALIFIED ELECTRICIAN.
CETTE LAMPE OPERE SEULEMENT AVEC LE BALLAST ELECTRONIQUE. SI LA LAMPE NE S'ALLUME PAS QUAND L'APPAREIL D'ECLAIRAGE ACTIVE, ENLEVEZ LA LAMPE DE L'APPAREIL D'ECLAIRAGE ET CONTACTEZ LE FABRICANT DE LAMPE OU UN ELECTRICIEN QUALIFIE.
CAUTION RISK OF FIRE - IF THE LAMP OR LUMINAIRE EXHIBITS UNDESIRABLE OPERATION (BUZZING, FLICKERING, ETC.), IMMEDIATELY TURN OFF POWER, REMOVE LAMP FROM LUMINAIRE AND CONTACT MANUFACTURER.
ATTENTION RISQUE DE FEU - SI LA LAMPE OU LE LUMINAIRE MONTRE DES SIGNES D'OPERATION INDESIRABLE (BRUIT, VIBRATION, CLIGNOTEMENT, ETC.), ALORS COUPER IMMÉDIATEMENT LE COURANT ET ENLÈVER LA LAMPE DE L'APPAREIL D'ÉCLAIRAGE ENTRER EN CONTACT AVEC LE FABRICANT.
Type A LAMP – intended for direct substitution of a fluorescent lamp and operating from the integral ballast without any modifications to the fluorescent luminaire.

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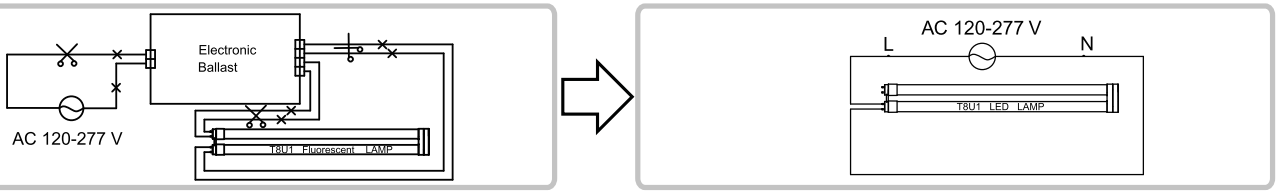
BY PASS Mode (Mode II)

⚠ **The below ballast wiring represents typical configuration. The actual ballast wiring varies according to ballast model. The socket should be non-shunted.**

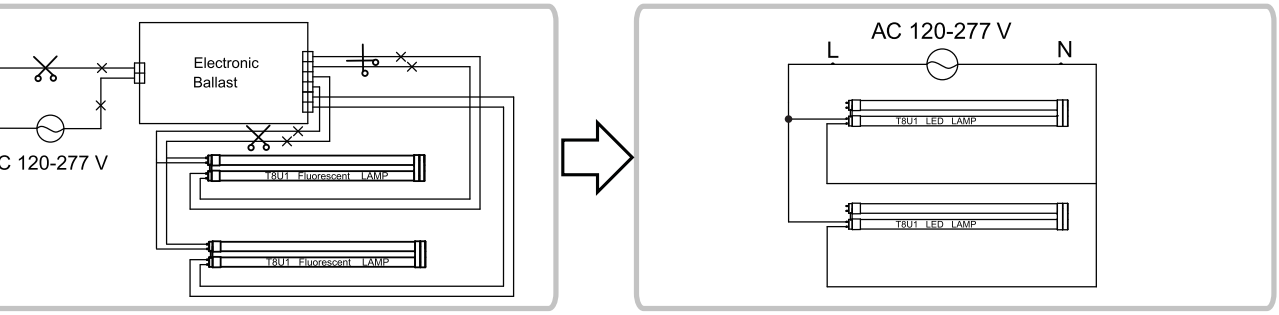
Single ended Wiring Instruction

Wiring Instruction - Electronic Ballast

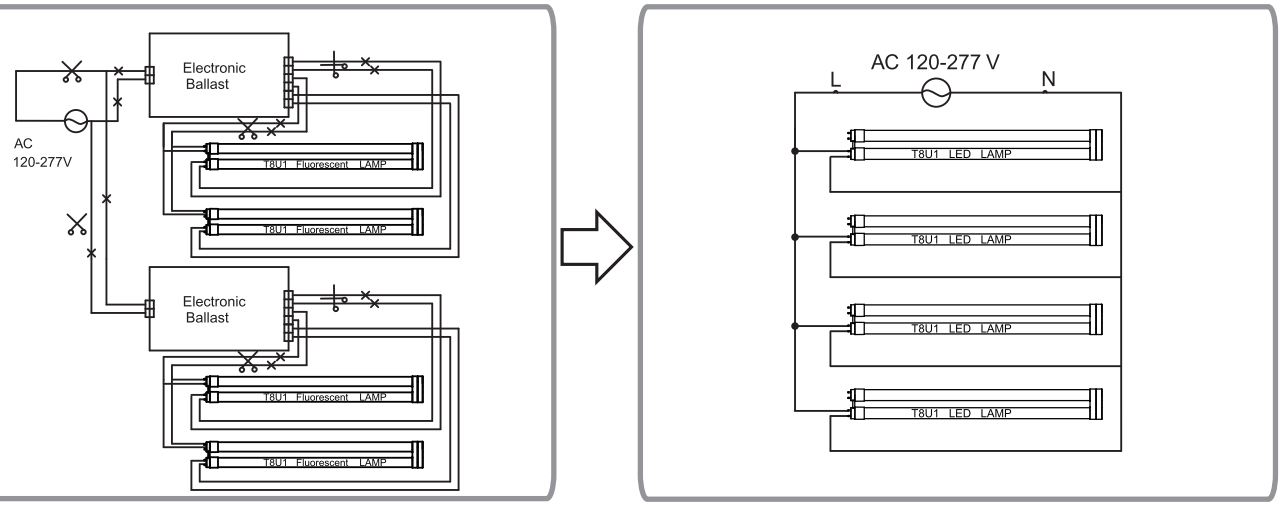
Retrofit luminaire with 1 lamp



Retrofit luminaire with 2 lamps



Retrofit luminaire with 4 lamps



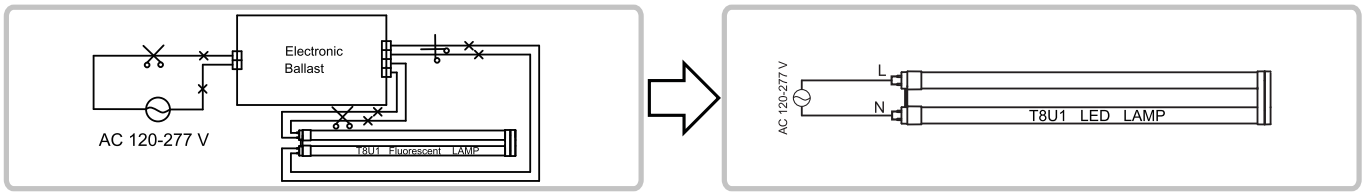
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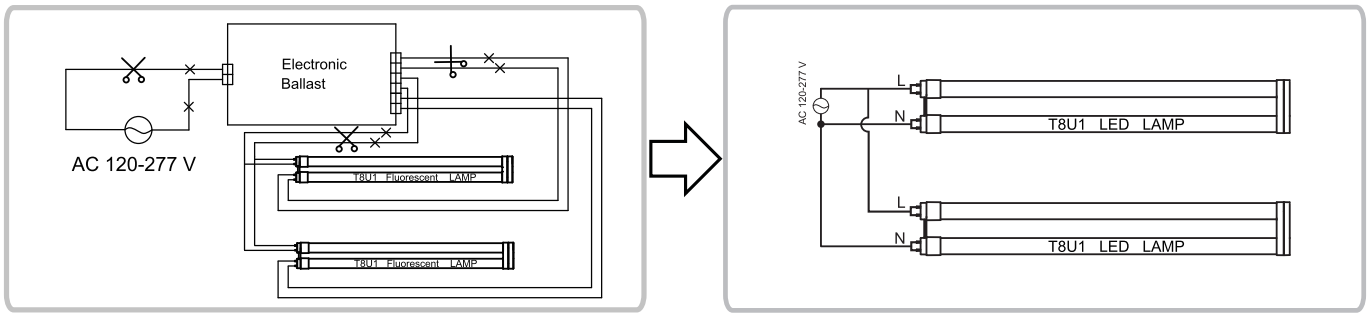
⚠ **The below ballast wiring represents typical configuration. The actual ballast wiring varies according to ballast model. Changing sockets is not required (if in good condition) to operate double ended lamps, regardless of the type of sockets. Please make sure one side of the lamp is connected to Live (L) and the other side to Neutral (N).**

Double ended Wiring Instruction

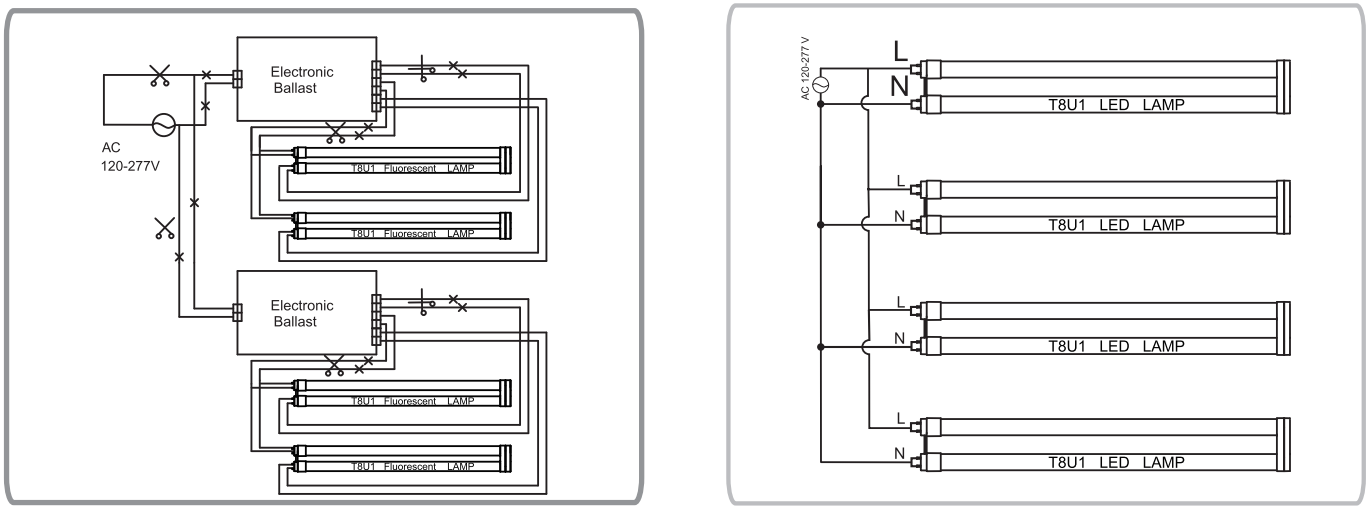
Retrofit luminaire with 1 lamp



Retrofit luminaire with 2 lamps



Retrofit luminaire with 4 lamps



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WARNING – RISK OF FIRE OR ELECTRIC SHOCK. 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.
AVERTISSEMENT - RISQUE D'INCENDIE OU DE CHOC ÉLECTRIQUE. CE PRODUIT DOIT ÊTRE INSTALLÉ CONFORMÉMENT AU CODE D'INSTALLATION APPLICABLE PAR UNE PERSONNE FAMILIÈRE AVEC LA CONSTRUCTION ET LE FONCTIONNEMENT DU PRODUIT ET LES DANGERS IMPLIQUÉS.

WARNING - Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings.
AVERTISSEMENT - Risque d'incendie ou de choc électrique. Installez ce kit uniquement dans les luminaires qui ont les caractéristiques de construction et les dimensions indiquées sur les photographies et/ou les dessins.

WARNING -To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
AVERTISSEMENT - Pour éviter d'endommager le câblage ou à l'abrasion, ne pas exposer le câblage aux bords de tôle ou d'autres objets pointus.

WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders. Note: Shunted lamp holders are found only in fluorescent luminaires with Instant-Start ballasts. 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 ballast is intended to be used, for example F40T12/IS. For more information, contact the LED luminaire retrofit kit manufacturer.
AVERTISSEMENT: Pour éviter tout incendie potentiel ou tout risque de choc, ne pas utiliser ce kit de rénovation dans les luminaires utilisant des douilles shuntées à deux broches. Remarque: les supports de lampe shunté ne se trouvent que sur les luminaires fluorescents avec ballasts et à allumage instantané. Les ballastes à allumage instantané peuvent être identifiés par les mots "Démarrage instantané" ou "I.S" sur la ballaste. Cette désignation peut être présentée sous la forme d'une déclaration relatives au ballast lui-même, ou peut être combinée avec le marquage pour les lampes dont le ballast est destiné à être utilisé, par exemple le modèle F40T12 / EST. Pour plus d'informations, contactez le fabricant du kit de rénovation de luminaire LED.

WARNING – Risk of fire. Input ratings may need to be determined based on any configuration(s) permitted by the installation instructions. Regardless of the configuration(s) of the retrofit kit, the input ratings of the overall retrofit kit shall not exceed the marked input ratings of the host luminaire.
AVERTISSEMENT - Risque d'incendie. Les valeurs d'entrée peuvent devoir être déterminées en fonction de toute configuration permise par les instructions d'installation. Peu importe la ou les configurations de la trousse de mise à niveau, les cotes d'entrée de l'ensemble de la trousse de mise à niveau ne doivent pas dépasser les cotes d'entrée marquées du luminaire hôte.

CAUTION - RISK OF ELECTRIC SHOCK. Do not use if outer lamp envelope is damaged or broken.

Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

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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.

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.
THERE ARE TUBE, OPERATION INSTRUCTION AND FILED THE DOUBLE-ENDED OR SINGLE-ENDED APPLICATION LABEL IN THIS RETROFIT KIT.

Type B LAMP – intended for operation in luminaires with traditional fluorescent-type lampholders wired directly to the branch circuit. This includes both factory-wired luminaires as well as those converted for this purpose under a retrofit program.
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.

For use with fluorescent luminaires.

Suitable for use with luminaires with maximum four lamps.

Suitable for use with luminaires with MINIMUM LAMP COMPARTMENT DIMENSIONS sheet.

SUITABLE FOR DAMP LOCATIONS.

Suitable for closed type luminaires.