KEYSTONE SINCE 1945

DIRECT DRIVE DX2

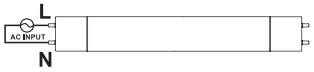
SINGLE OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

INSTALLATION AND OPERATING INSTRUCTIONS

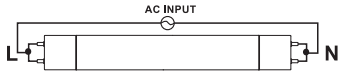
CATALOG NUMBERS: KT-LED12.5T5HE-48GC-8CSJ-DX2

1. Product Features:

- UL Certified
- Full glass housing: No Aging, Yellowing, Bending.
- Single Ended:



- Double Ended:



2. Product Applications:

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

3. Installation Instructions:

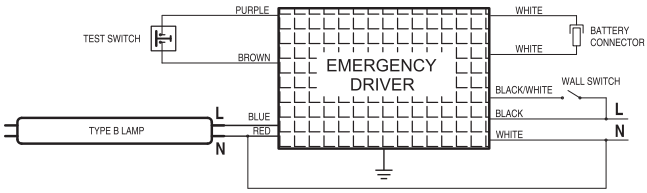
Please completely comply with these instructions and notes to ensure that the product is operated in a safe condition.

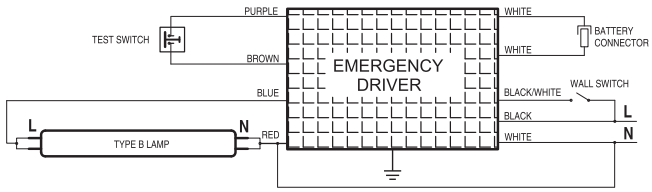
⚠ Safety Precautions:

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

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. 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





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.

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 six tubular lamps. The minimum lamp compartment dimensions are tabulated below:

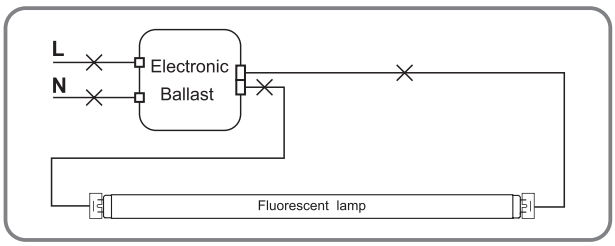
Model Number	Minimum Lap Compartment Dimensions (Length x Width x Height cm)	Lamp Quantity
KT-LED12.5T5HE-48GC-8CSJ-DX2	117 X 40 X 9	6

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

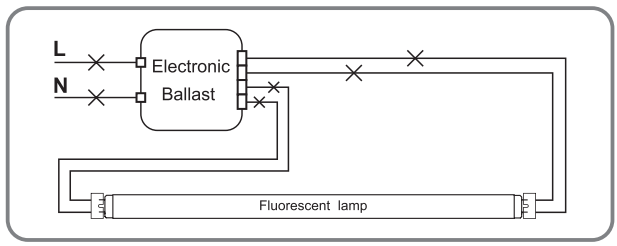
Single ended Wiring Instruction

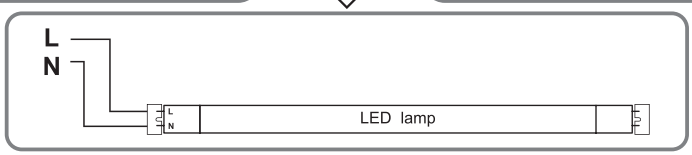
RETROFIT LUMINAIRE WITH 1 LAMP

Instant Start



Program Start or Rapid Start





KEYSTONE SINCE 1945

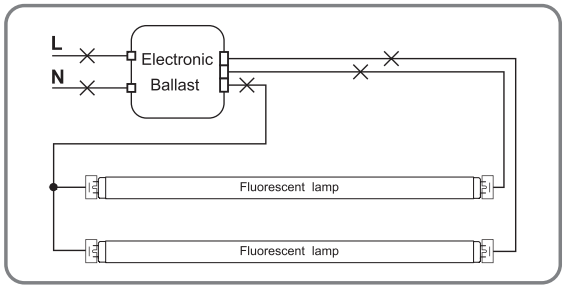
DIRECT DRIVE DX2

SINGLE OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

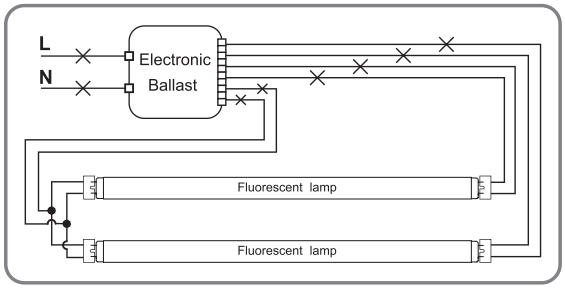
INSTALLATION AND OPERATING INSTRUCTIONS

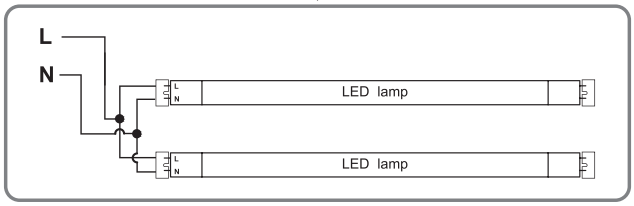
RETROFIT LUMINAIRE WITH 2 LAMPS

Instant start



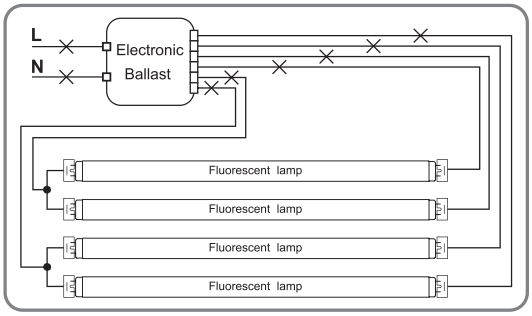
Program Start or Rapid Start



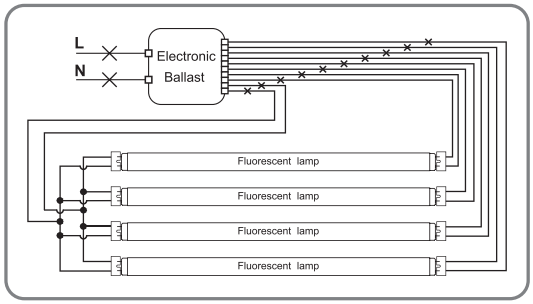


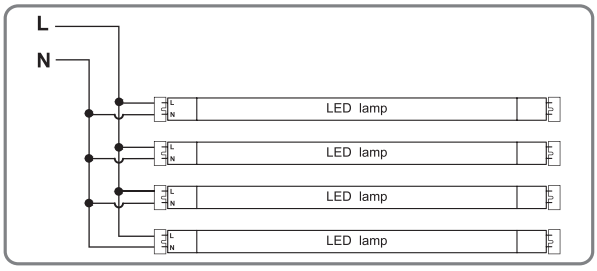
RETROFIT LUMINAIRE WITH 4 LAMPS

Instant start



Program Start or Rapid Start





⚠ 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).

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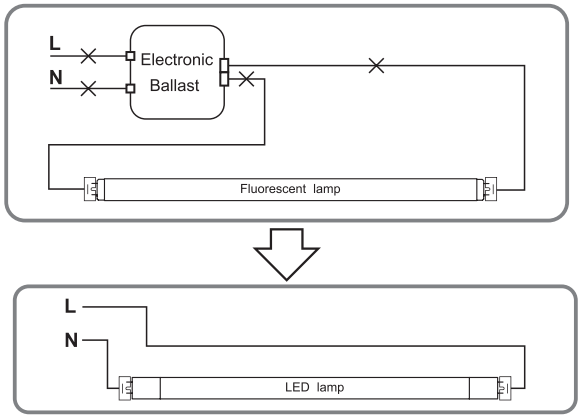
DIRECT DRIVE DX2
SINGLE OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

INSTALLATION AND OPERATING INSTRUCTIONS

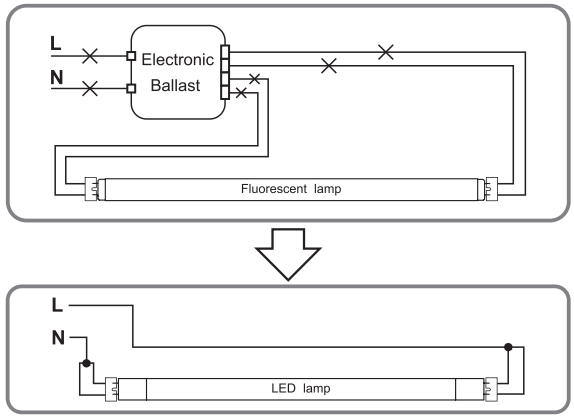
Double ended Wiring Instruction

RETROFIT LUMINAIRE WITH 1 LAMP

Instant Start

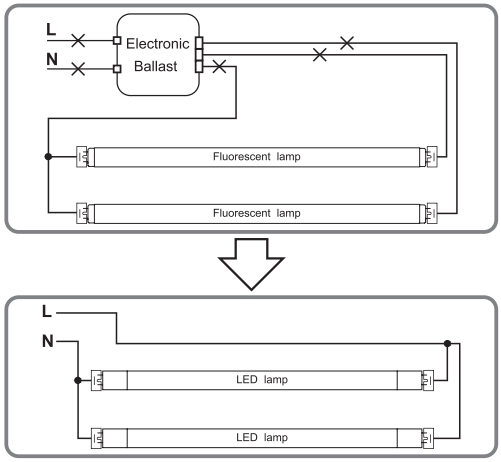


Program Start or Rapid Start

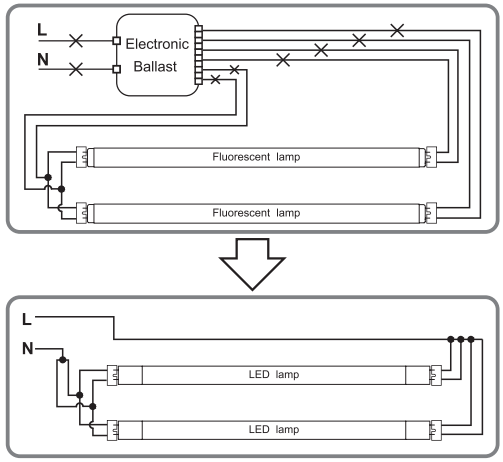


RETROFIT LUMINAIRE WITH 2 LAMPS

Instant Start

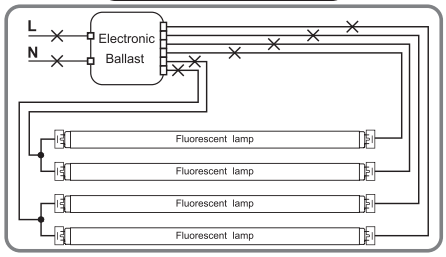


Program Start or Rapid Start

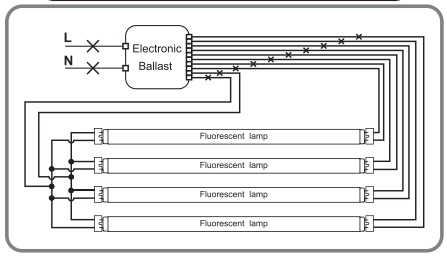


RETROFIT LUMINAIRE WITH 4 LAMPS

Instant Start



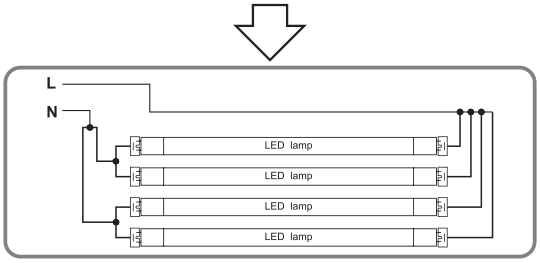
Program Start or Rapid Start

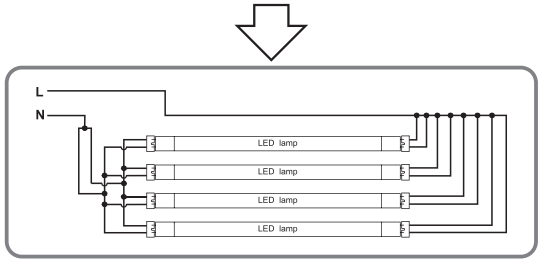


SINCE 1945 KEYSTONE | DIRECTDRIVE DX2

SINGLE OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

INSTALLATION AND OPERATING INSTRUCTIONS





⚠ WARNING:

WARNING - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
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.
WARNING - To avoid potentiall 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 Instand-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 Keystone Technologies.
WARNING - RISK OF ELECTRIC SHOCK. Do not use if outer lamp envelope is damaged or broken.

AVERTISSEMENT - Risque d’incendie ou d’électrocution. L’installation du kit de rénovation LED nécessite une connaissance des systèmes électriques des luminaires. Si vous n’êtes pas qualifié, ne tentez pas l’installation. Contactez un électricien qualifié.
AVERTISSEMENT - Risque d’incendie ou d’électrocution. Installez ce kit uniquement dans les luminaires qui ont les caractéristiques de construction et les dimensions indiquées sur les photographies et/ou les dessins et où la valeur nominale d’entrée du kit de rénovation ne dépasse pas la valeur nominale d’entrée du luminaire.
AVERTISSEMENT - Pour éviter d’endommager le câblage ou de l’abrasion, n’exposez pas le câblage aux bords de la tôle ou à d’autres objets pointus.
AVERTISSEMENT - Pour éviter tout risque potentiel d’incendie ou d’électrocution, n’utilisez pas ce kit de mise à niveau dans des luminaires utilisant des douilles à deux broches shuntées. Remarque : Les douilles shuntées ne se trouvent que dans les luminaires fluorescents avec ballasts Instand-Start. Les ballasts à démarrage instantané peuvent être identifiés par les mots “Démarrage instantané” ou “I.S.” marqué sur le lest. Cette désignation peut être sous la forme d’une mention relative au ballast lui-même, ou peut être combinée avec le marquage des lampes avec lesquelles le ballast est destiné à être utilisé, par exemple F40T12/IS. Pour plus d’informations, contactez Technologies clés de voûte
AVERTISSEMENT - Risque d'incendie ou de choc électrique. Ne pas utiliser si l’enveloppe extérieure de la lampe est endommagée ou brisée.

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

Installers should not disconnect existing wires from lamp holders terminals to make new connections at lamp holder terminals. Instead installers should cut existing lamp holder leads away from lamp holder and make new electrical connections to lamp holder lead wires by employing appliable connectors.

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.

THE 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 THE FIELD APPLIED DOUBLE-ENDED OR SINGLE-ENDED APPLICATION LABEL IN THE RETROFIT KIT.

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

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