

# INSTRUCTION MANUAL

## Dual-mode T8 LED Tube

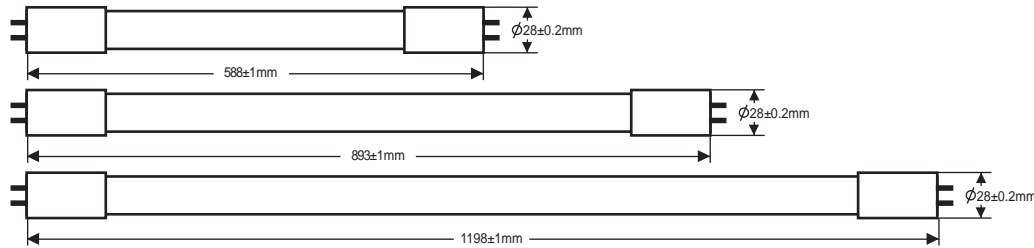
Please keep this Quick Installation Guide for future reference. Modifications to the product void the Warranty. Suitable to replace fluorescent lamps as specified on the product label.

This luminaire has been modified to operate LED lamps. Do not attempt to install or operate fluorescent lamps in this luminaire.

## LED Tube Light

### USER MANUAL

#### INSTALLATION INSTRUCTION FOR LED TUBE WITH INTERGRAL DRIVER



## 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 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.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.**
- 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.
- 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.
- FOR CNC ONLY: 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.

- Please 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.
- NOT FOR EMERGENCY LIGHTING.**

## Introduction

LED lamp tubes integrate advanced LED technology .

They can be used anywhere conventional fluorescent tubes are used , such as homes . offices , museums , shops , hotels , etc .

The package consists of the LED Lamp Tubes (1 pcs ), Installation instruction (1 pcs), Relamping labels (1pcs). Please apply the following relamping label on the retrofit luminaire after the retrofit kit has been installed , where readily visible by the user during relamping and after installation .

**-DANGER : RISK OF SHOCK**

**-DISCONNECT POWER BEFORE INSTALLATION**

**-To replace Fluorescent tubes with LED tubes , the wiring must be retrofit according to the instruction .**

**-To ensure a complete and safe installation of LED lamp tubes , please strictly follows the following installation guideline .**

## INSTALLATION OR ASSEMBLY INSTRUCTIONS

### “By pass” procedure

#### Installation steps:

Step 1 : Turn off the power to the light fixture at the main service panel or the circuit breaker panel before installation.

Step 2 : Open the diffusers (If any) and fluorescent tubes .Please dispose the fluorescent lamp tubes properly as they contain mercury.

Step 3 : Open the wiring cover to expose the fluorescent lamp ballast . Check the wire of the light fixture before installation of the LED retrofit kit. If the light fixture is providing with the magnetic ballast and starter , disconnect and rewiring the wires at the point as shown in the following figures ( see figure1 to figure 3) .

Cut the wires connected to the ballast and starter , and lampholders as shown.  
[x]Remove the ballast and starter.

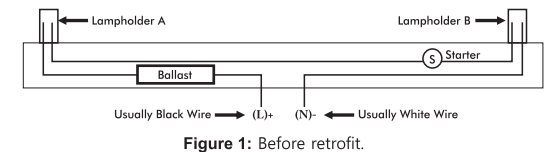
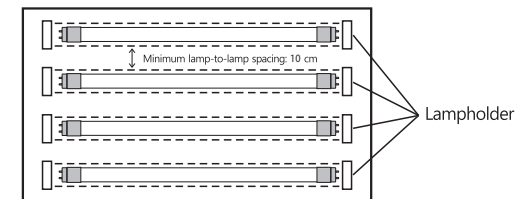


Figure 1: Before retrofit.

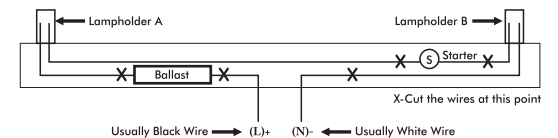


Figure 2: Under retrofit

# INSTRUCTION MANUAL

## Dual-mode T8 LED Tube

Please keep this Quick Installation Guide for future reference. Modifications to the product void the Warranty. Suitable to replace fluorescent lamps as specified on the product label.

Both line and neutral power are required to be connected to the lampholder as shown in figure 3.

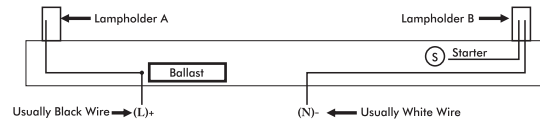


Figure 3: After retrofit

Step 4 : If the light fixture is providing with electronic ballast , disconnect and rewiring the wires at the point as shown in the following figures (See Figure 4 to Figure 5).

Figure 4: Before retrofit

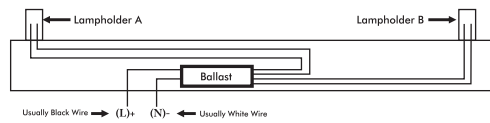
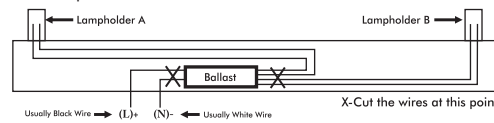


Figure 5: Under retrofit-Cut the wires connected to the ballast and Lampholders.

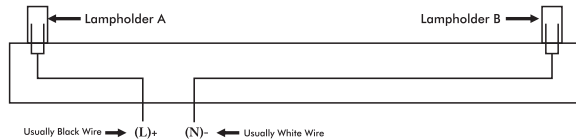


**FOR LED RETROFIT KIT WHICH BOTH LINE AND NEUTRAL POWER ARE CONNECTED TO THE SAME LAMPHOLDER**

### (1)The following steps are for double-ended input

Step 5 : Both line and neutral power are required to be connected to the lampholder as shown in figure 6.

Figure 6: After retrofit - Rewiring the wires from lampholder A to "L" and "N" of the supply circuit by wire nuts/connectors. Insulated or capped all unused conductors with a wire connectors.



For light fixture with maximum 4 lamps , simply connect all the black leads (ungrounded leads ) from each Lampholders to the line side (L) of the supply circuit and connect all white leads (grounded leads ) from each lampholders to the neutral side (N) of the supply circuit . See Figure 7 and Figure 8 and Figure 9 for 2 lamps and 3 lamps and 4 lamps connection in details , respectively.

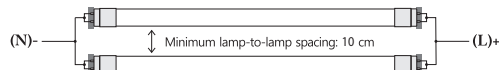


Figure 7

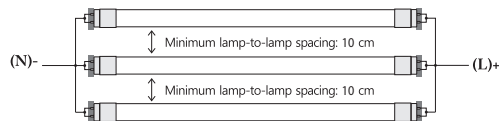


Figure 8

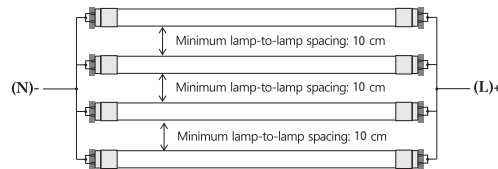


Figure 9

### (2)The following steps are for single-ended input

Step 5 : Close the wiring cover.

Step 6 : Identify one side of the lampholder which connected the the supply circuit as the live end and marked as "LIVE END" or "L/N" for future reference (See Figure 10). Install the LED lamp tube to light fixture . Match the power side (the side marked with "AC") of the lamp to the "LIVE END "side of the light fixture . Close the diffuser. This LED Retrofit kit is intended for use with maximum 4 lamps in light fixture with or without diffuser.

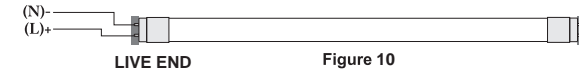


Figure 10

Step 7 : Turn on the light fixture. If the light fixture is not working , turn off the power at the main service/circuit breaker panel and check the wiring connections.

Step 8 : After modification completed , attach the relamping label to the light fixture . The label shall be readily visible by the user during relamping and after installation.

For light fixture with maximum 4 lamps , simply connect all the black leads (ungrounded leads ) from each Lampholders to the line side (L) of the supply circuit and connect all white leads (grounded leads ) from each lampholders to the neutral side (N) of the supply circuit . See Figure 11 and Figure 12 and Figure 13 for 2 lamps and 3 lamps and 4 lamps connection in details , respectively.

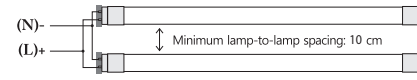


Figure 11

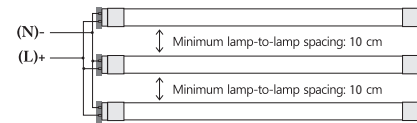


Figure 12

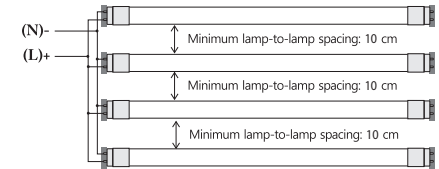


Figure 13

### "Plug" and "Play" procedure

#### Installation steps:

Step1 : Turn off the power to the light fixture at the breaker panel before installation.

Step2 : Open the diffuser from the light fixture.

Step3 : Remove the fluorescent tubes. Please dispose of these items properly as they contain mercury.

Step4 : Put led tube into the lighting fixture.

Step5 : Install the LED tubes, close the diffuser.

Step6 : Turn on the power.

