

## Two Terminal LED Tube Installation Instruction

### Package Content:

- LED lamp tube, 1 pc for each smallest package;
- Instruction manual, 1 pc.
- Relamping Marking, 1 pc.
- LED Driver (1pcs for T82-MD-10W-XX, T8U-MD-18W-XX, T84-MD-18W-XX, T84-ED-22W-XX, T85-ED-26W-XX)
- Bolt (2pcs for T82-MD-10W-XX, T8U-MD-18W-XX, T84-MD-18W-XX, T84-ED-22W-XX, T85-ED-26W-XX)
- Wire nuts (2pcs for T82-MD-10W-XX, T8U-MD-18W-XX, T84-MD-18W-XX, T84-ED-22W-XX, T85-ED-26W-XX)

### IMPORTANT!

- Failure to follow the recommended installation instructions could result in serious injury or death.
- Disconnect power for the fixture at the breaker panel before opening the fluorescent fixture.
- Verify that power is off before working on the fixture by using a proper voltmeter or tester.
- When splicing wires with wire nuts, always follow the manufacturer's instructions and wire capacity.
- Not for use in luminaires controlled by a dimmer.
- WARNING – damp location use only.

### IMPORTANT SAFETY INSTRUCTIONS

#### For Models With Internal Driver:

“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.”

#### For Models With External Driver

All field-installed connections for after LPS/Class 2 driver are provided with a minimum 6.4 mm (0.25 in.) separation from LPS/Class 2 circuit to Non- LPS/Class 2 circuits by reliable routing and securing of conductors by provided wire clips, in accordance with the installation instructions.

#### For All Models:

THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS.

Instructions shall be provided with the kit which indicate proper assembly and wiring. Each kit shall be provided with installation instructions as follows:

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 – Risk of fire or electric shock. Installation of this retrofit assembly requires a person familiar with the construction and operation of the luminaire's electrical system and the hazard involved. 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 has the construction features and dimensions shown in the photographs and/or drawings.

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

WARNING – Risk of fire or electric shock. Not for direct replacement of fluorescent lamps.

WARNING – RISK OF FIRE OR ELECTRIC SHOCK. LUMINAIRE WIRING, POWER SUPPLY, OR OTHER ELECTRICAL PARTS MAY BE DAMAGED WHEN DRILLING FOR INSTALLATION OF RETROFIT ASSEMBLY HARDWARE. INSPECT WIRING AND COMPONENTS FOR DAMAGE. ONLY THOSE OPEN HOLES INDICATED IN THE PHOTOGRAPHS AND/OR DRAWINGS MAY BE MADE OR ALTERED AS A RESULT OF KIT INSTALLATION. DO NOT LEAVE ANY OTHER OPEN HOLES IN AN ENCLOSURE OF WIRING OR ELECTRICAL COMPONENTS.

THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY CSA OR AUTHORITIES HAVING JURISDICTION

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.

DANGER - RISK OF SHOCK - DISCONNECT POWER BEFORE INSTALLATION.

### INSTALLATION REQUIREMENTS

- The tube should be installed by a professional electrician;
- All ballasts and starters must be removed before the LED tubes are installed in the fixture;
- Up to four (4) LED tubes can be installed in one Listed fixture with G13 mounting brackets, and they are designed to operate in a totally enclosed environment.

| LED Tube Lamp Retrofit Luminaire Conversion Kits Model | Maximum number of lamp powered by one external LED driver |
|--|---|
| T82-MD-10W-XX  | 4   |
| T8U-MD-18W-XX  | 2   |
| T84-MD-18W-XX  | 3   |
| T84-ED-22W-XX  | 1   |
| T85-ED-26W-XX  | 1   |

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| T8U-MD-18W-XX  | 1   |
| T84-MD-18W-XX  | 1   |
| T84-ED-22W-XX  | 1   |
| T85-ED-26W-XX  | 1   |

- Do not install in a raceway or a luminaire marked for through branch wiring;
- Use in damp locations only;
- Lampholder-to-lampholder spacing min 2.4in

### INSTALLATION INSTRUCTIONS

#### Step1- Disconnect all power to lamp fixture.

#### Step2- Cut the wire at the point shown in.

Figure 1A is for luminaire with electronic ballast.

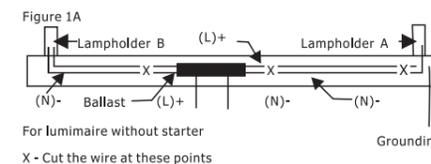
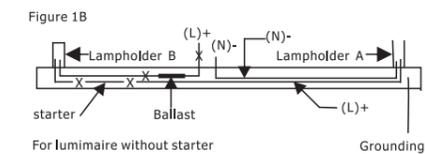


Figure 1B is for luminaire with magnetic ballast.



#### Step3- Remove the fluorescent lamp, ballast and starter. Recycle according to local regulations.

#### Step4A- If install LED external driver. See Figure 2.

Drill a 3mm hole inside metal cover for bonding led driver in light fixture, the led driver should be totally enclosed in an # metal enclosure. Use screw fix driver.

Connect L and N from main circuit to L and N input side on driver.

Connect main power L and N to driver L and N

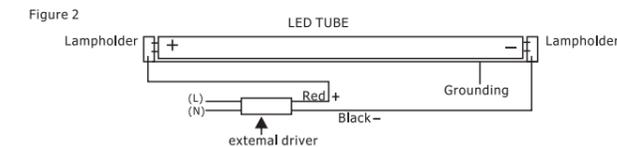
driver output connector : driver sign Red (+) to lighting sign +; driver sign black (--) to lighting sign --)

the power input side of tube install to the lamp socket

Attention to the polarity ,All connection are made by wire nuts.

For models T82-MD-10W-XX, T8U-MD-18W-XX, T84-MD-18W-XX, T84-ED-22W-XX, T85-ED-26W-XX

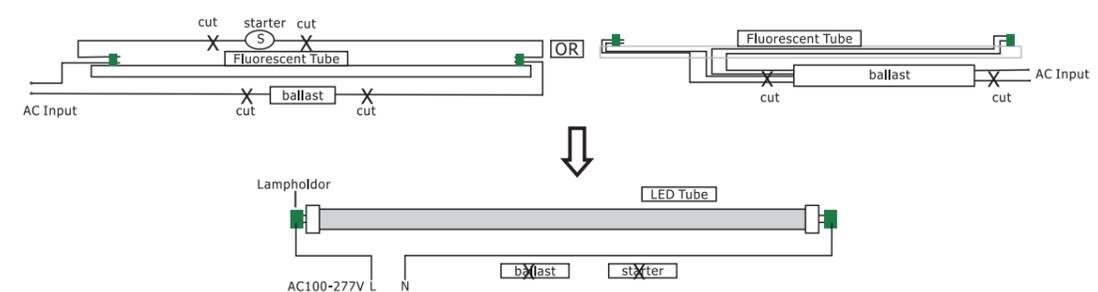
If enclosure made of Steel, minimum 0.66 mm thickness is required; If enclosure made of Copper, brass, aluminum sheet, and extruded aluminum, minimum 0.71 mm thickness is required.



#### Step4B -If install LED internal driver. See Figure 3.

Two side of the fixtures lamp socket as the power input. the lamp socket connect main circuit to L and N input. the base of tube install to the lamp socket. All connection are made by wire nuts.

For model with internal driver:



#### Step5- Reconnect power to lamp fixture.

Notice: luminaire has been modified and can no longer operate Fluorescent Lamps.