



## COLOR SELECTABLE LED T8 TUBE W/ EMERGENCY BACKUP – TYPE B

### WARNING, CAUTION, SAFETY AND INSTALLATION INSTRUCTIONS

#### WARNING

- Installation, service, and maintenance of luminaires should be performed by a qualified licensed electrician.
- 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.

#### CAUTION

- Not compatible with traditional fluorescent ballasts.
- Not for use with DC power.
- Not for use with standard dimmers.
- Suitable for use with surface mounted, recessed non-IC, or recessed IC luminaires.
- Do not make or alter any open holes in the wiring enclosure or components during kit installation.
- Luminaire and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.
- Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings.
- 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. Only suitable for single-end powered lamps.
- 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.
- 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.
- 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.
- Recommended working temperature: 0-45°C, for longevity. Do not use where the ambient temperature exceeds 45°C.
- This equipment has not been investigated for use in an air-handling fixture. It is not suitable for use in a heated air outlet.
- Use only in a fixture luminaire with min. lamp compartment dimensions:

MINIMUM COMPARTMENT DIMENSIONS	Spacing Between Tube Lamps (Center to Center)
1250MM x 800mm x 50mm	150mm

#### NOTICE

- For indoor use only. Suitable for damp locations.



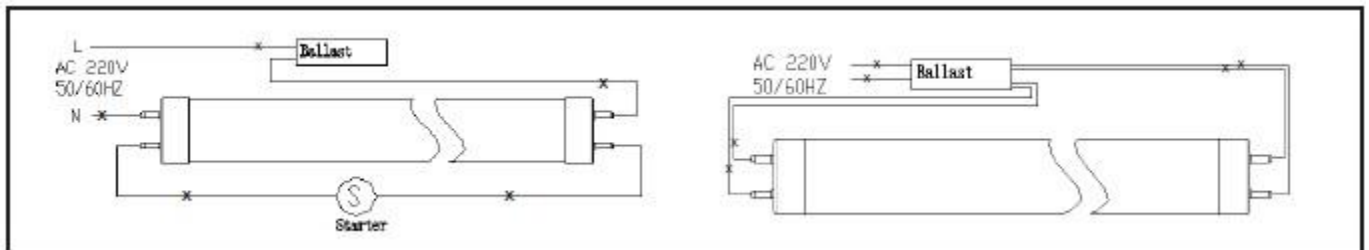
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- Suitable for open and enclosed luminaires.
- Suitable for use in luminaires with a maximum of up to 6 lamps.

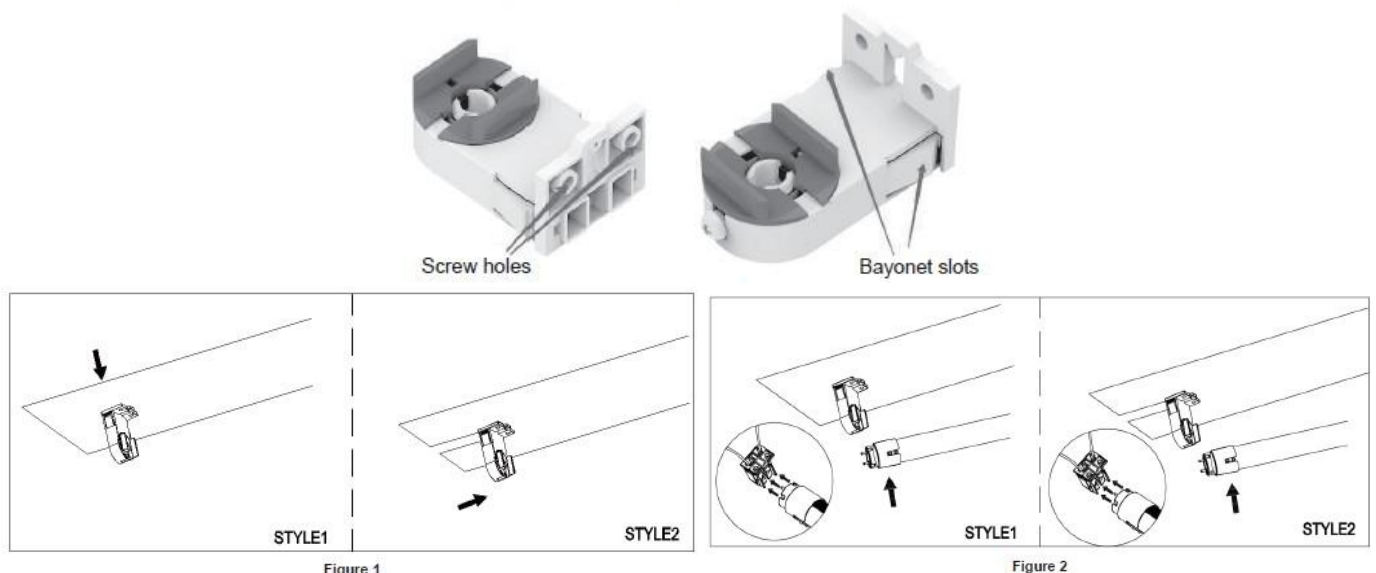
## Installation Instructions

- Step 1. Turn off the power from the AC main supply or electric panel.
- Step 2. Remove the lens, if present, then remove the fluorescent tube(s).
- Step 3. Remove the wiring cover then proceed to cut away all wires to remove the ballast and/or starter. Refer to the wiring diagram below as needed.



- Step 4. Replace one set of the existing tombstones with the new non-shunted G13 tombstones. (Tombstone Style 1 & 2, Figures 1 and 2).

Tombstone Style 1 - Screw Holes Tombstone Style 2 - Bayonet Slots

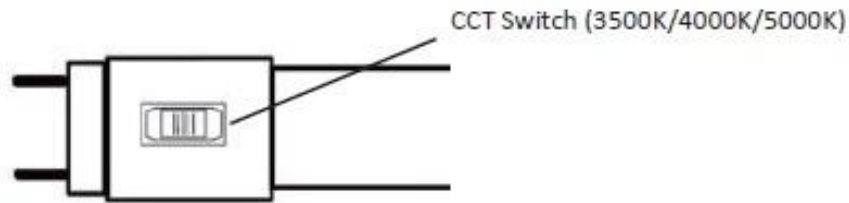


- Step 5. Rewire the new G13 tombstones to the AC main line voltage. See Emergency Wiring Diagrams section for more information.
- This product has two input sides, one on each end. The “Wall Switch” side operates as the standard power input mode with the switched line. The “Always on AC” side operates as the emergency power input mode, except during power outages. This side charges the emergency battery using the unswitched line.
- Step 6. Reattach the wiring cover to the fixture, then attach the modification sticker where it will be visible by the user during maintenance and lamp replacement.
- Step 7. Select the CCT before installing the LED tube. Slide the CCT switch to the desired color temperature. The default setting is 5000K.



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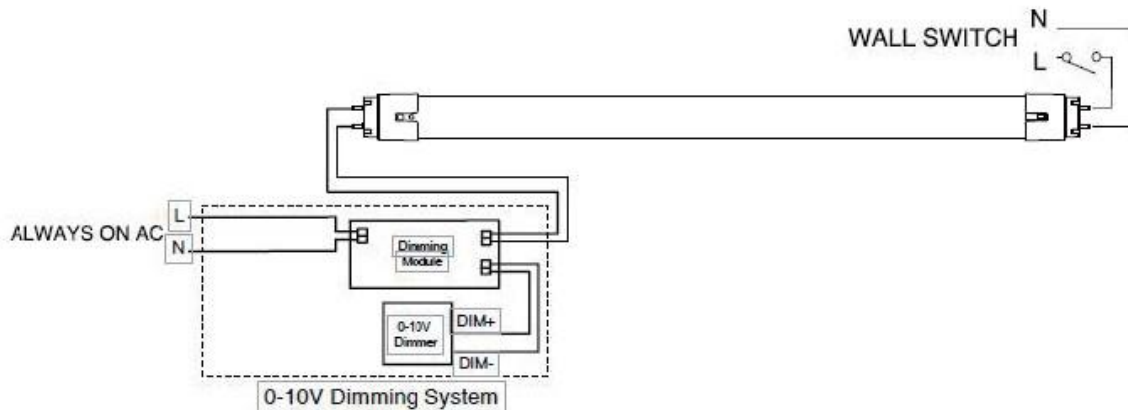
- Step 8. Align the end of the tube with the CCT switch with the switched line tombstone (Wall Switch) and the Test Button end with the unswitched line tombstone (Always on AC), then insert the LED tube as normal.
- Step 9. Turn power back on at the AC main supply or electric panel. Installation is complete.

## Emergency Wiring Diagrams



EMERGENCY LED TUBE WIRING DIAGRAM

EMERGENCY LED TUBE WIRING DIAGRAM with 0-10V DIMMING



## Emergency Operation

### Function

- When AC power and control switch is ON, the LED tube will work as general lighting from the standard power supply, and can be turned ON/OFF by the wall switch control.



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- When the AC power fails, the emergency backup will automatically activate providing 90 minutes of emergency lighting, regardless of whether the wall switch control is switched to ON or OFF.

#### Self-Testing

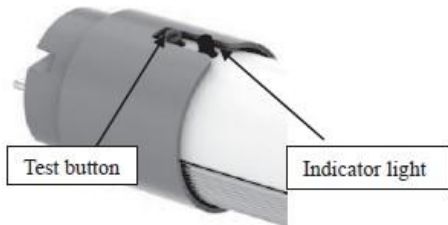
- This tube lamp will automatically perform a monthly and yearly self-test. If an error is detected, the RED LED indicator light will blink.

#### Indicator Light

- The RED LED indicator light will turn steady-ON while charging and remain on after it is fully charged.
- The RED LED indicator light will turn OFF during general lighting and emergency mode operation.
- To test the emergency mode manually, press and hold the test switch.

#### Test Switch

- Manual testing can only be performed when wired as double-ended. After wiring, press and hold the test switch, then release it when finished.
- Press the test switch 3 times quickly to place the emergency batter in standby mode for up to 8,000 hours.





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#### **⚠ WARNING**

- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- To reduce the risk of death, personal injury, or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards, read all warnings and instructions included with and on the fixture box and all fixture labels.
- Proper grounding is required to ensure safety.
- Power must be turned off at the breaker before installation or maintenance.
- 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.
- Wear gloves and eye protection at all times while installing, servicing, or performing maintenance on the luminaire, and avoid direct eye exposure to the light source while it is on.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not install damaged product. Inspect luminaire for damage that may have occurred during transit. If damaged, contact the manufacturer immediately.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, contact the manufacturer.

#### **⚠ ADVERTENCIA**

- Antes de instalar, reparar o realizar el mantenimiento de rutina de este equipo, siga estas precauciones generales.
- Para reducir el riesgo de muerte, lesiones personales o daños a la propiedad por fuego, descarga eléctrica, caída de piezas, cortes / abrasiones y otros peligros, lea todas las advertencias y instrucciones incluidas con y en la caja del dispositivo y todas las etiquetas del dispositivo.
- Se requiere una conexión a tierra adecuada para garantizar la seguridad.
- Se debe apagar la energía en el disyuntor antes de la instalación o el mantenimiento.
- Este producto debe ser instalado de acuerdo con el código de instalación aplicable por una persona familiarizada con la construcción y operación del producto y los peligros involucrados.
- Utilice guantes y protección para los ojos en todo momento durante la instalación, el servicio o el mantenimiento de la luminaria, y evite la exposición directa de los ojos a la fuente de luz mientras está encendida.
- Para evitar daños o abrasiones en el cableado, no exponga el cableado a bordes de láminas de metal u otros objetos afilados.
- No instale un producto dañado. Inspeccione la luminaria en busca de daños que puedan haber ocurrido durante el tránsito. Si está dañado, comuníquese con el fabricante de inmediato.
- Estas instrucciones no pretenden cubrir todos los detalles o variaciones en el equipo ni proporcionar todas las posibles contingencias a cumplir en relación con la instalación, operación o mantenimiento. Si desea obtener más información o si surgen problemas particulares que no están suficientemente cubiertos para los propósitos del comprador o propietario, comuníquese con el fabricante.