

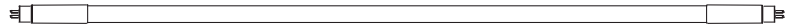


Questions?

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Office Hours: 8:00 a.m. – 5:00 p.m. PST Monday-Friday
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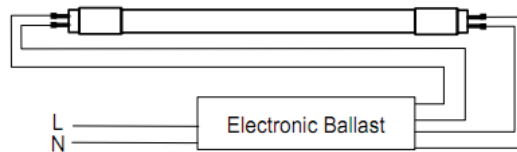
LED Hybrid Tube
Direct Replacement



PLEASE REVIEW THE INSTRUCTIONS AND WARNINGS LISTED BELOW PRIOR TO PROPER INSTALLATION

WARNINGS	CAUTIONS
<ul style="list-style-type: none"> • 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. • 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. • DO NOT make or alter any open holes in an enclosure of wiring or electrical components during kit installation. • To prevent wiring damage or abrasion, DO NOT expose wiring to edges of sheet metal or other sharp objects. • Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors. • For a linear tubular LED lamp conversion, there shall be text or a diagram showing how the supply connections were made to the lamp holders so the correct connections will be made to the lamp when the lamp is installed or replaced. • This retrofit kit accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having JURISDICTION. 	<ul style="list-style-type: none"> • Do not use with dimmers. • Do not look directly at the operating LED lamp. • Do not touch this product with wet hands. • Do not disassemble, repair or alter lamp. • Designed for indoor applications only. • Suitable for damp locations. • The luminaires shall be grounded. • Avoid contact with lamp pins during installation. • To prevent early lamp failure: Lamp should only be installed in operating environments ranging between -20° C and +50° C . • This Device is not intended for use with emergency exits or emergency lights. <p>NOTE</p> <ul style="list-style-type: none"> • Risk of fire or electric shock, please read and understand the detailed installation instructions before installing the LED T5 tube light. • If the tube is installed as Type B, the luminaire, once modified as a retrofit fixture will no longer operate fluorescent lamps. • LED T5 tube lights are designed to work with electronic/magnetic ballasts(Check the ballast compatibility list) or work with AC direct wire double-end power input. • Do not use where directly exposed to water or weather. Non-submergible (not water tight). • Use in dry or damp locations only. • Not suitable for use with dimmer. • Disable all power to the fixture before inspection, installation, or removal. Failure to do so will create a hazardous and fatal working environment. • Do not open – No user serviceable parts inside.

Type A -Assembly Introduction:



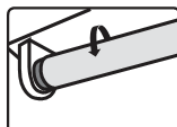
Type A -Installation Guide:

INSTRUCTIONS:

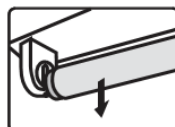
1. Switch-off power to the luminaire.
2. Remove diffuser (if provided).
3. Remove the existing fluorescent lamps from the luminaire.
4. Install the LED tube lamp.
5. Install diffuser (if removed in step 2)
6. Switch on power to the luminaire.
7. Before installation. check specifications for the most current ballast compatibility list. If not compatible. insert LED tubes according to type B installation instructions.



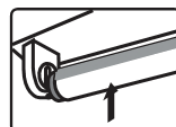
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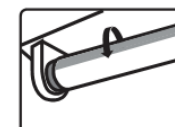
2 Fluorescent



3 Fluorescent



4 LED T5 InstantFit



5 LED T5 InstantFit

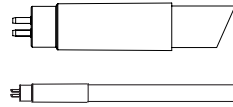


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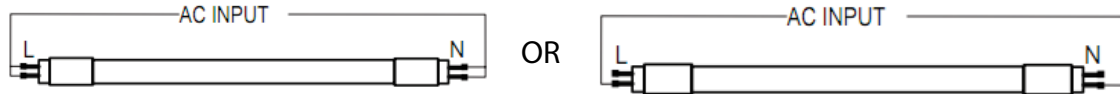


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Type B -Assembly Introduction:

Note: The tube can work with double ended power input only.



Type B Installation Guide:

1. DISCONNECT POWER TO LUMINAIRE

Disconnect power to luminaire or circuit(if possible). Ensure all power is OFF by using a voltmeter or other approved method to confirm.

2. REMOVE EXISTING TUBE LAMP(S)

- a. Remove troffer lens, if present.
- b. Remove existing fluorescent tube by rotating one-quarter turn and sliding lamp(s)
- c. Remove ballast cover. (Cover may be secured with screws or tabs)..tubes according to type B installation instructions.

3. INSERT LED TUBES

- a. Ensure both the ends of the LED tube are aligned with socket, then insert LED lamp in the normal way by sliding pins into sockets and rotating a quarter turn until the LED tube locks in place.
- b. LED lamps are now fully installed.
- c. Replace troffer lens, if present.
- d. After modification completed. Attach the replacement marking and cautionary label to a visible place on the luminaire and keep it visible after installation.

4. RESTORE THE POWER OF LUMINAIRE

Restore power to circuit/luminaire and test light. If necessary, adjust position of LED tube, and enjoy your new LED tube!

Ballast Compatibility List

No.	Brand	Model
1	KEYSTONE	KTEB-228-1-TP-PH-SL/B
2	KEYSTONE	KTEB-113-1-TP-SN-MB/A
3	KEYSTONE	CAT.NO.KTEB-221PS-1-TP/A
4	PROLINE(GE)	GE28T5/2-120-RES
5	PROLINE(GE)	GE21T5-120-RES
6	PROLINE(GE)	GE28T5/2-120-RESL
7	OSRAM	QHE 2X54T5HO/UNV PSN
8	OSRAM	QHE 2X28T5/UNV PSN
9	ESPEN	VE454MVHRP11088
10	ESPEN	VE254MVHRP11101
11	ACT	ACT4M54PSUNV
12	HOWARD	EP2/54HO/PRS/MV/W/MC
13	ROHSPlusrite	BAF254PS/MV
14	ROHSPlusrite	BAF454PS/MV
15	ROBERTSON	PSU228T51203P20210
16	ACCUST5ART	B254PUNV-D
17	PHILIPS ADCANCE	ICN-2S54-T
18	PHILIPS ADCANCE	ICN-2S54-90C-T
19	PHILIPS ADCANCE	ICN-4S54-90C-2LS-G