

4FT T8 TYPE B TUBE

INSTALLATION INSTRUCTION



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INSTALLATION INSTRUCTION

Dual Mode Internal Driver For Compatible Tube

⚠ WARNING

- Risk of fire or electric shock. When installing with an electronic ballast, please check the compatible ballast list first. If you
 do not find your ballast on the list, please bypass the fixture. Do not install the LED Tube with a ballast that is not listed on
 our compatible ballast list risk of fire.
- 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 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 a linear tubular LED lamp conversion, there shall be text or a diagram showing how the supply connections were made to the lampholders so the correct connections will be made to the lamp when the lamp is installed or replaced.
- This retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction.
- The luminaire, once modified as retrofit fixture will no longer operate fluorescent lamps.
- These lamps should be installed by a licensed electrician.
- These lamps are to be used indoors (damp or dry locations only). Not suitable for wet location.
- This device is not suitable for use with emergency ballasts or dimming ballasts.

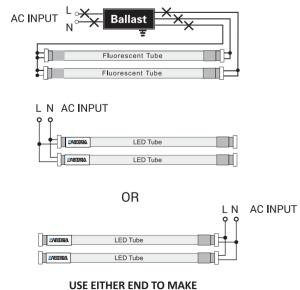
RETROFIT INSTALLATION (TYPE B)

- * Can be installed with either single or double ended connection.
- * Double-ended connection can be used with either shunted or non-shunted sockets (tombstones). For single-ended connection, please use non-shunted sockets,

Please install your LED tubes according to the Type B Installation Method instructions below.

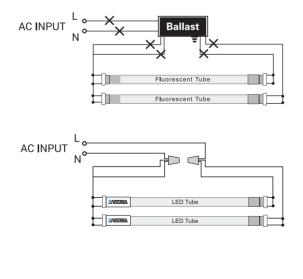
- 1. Disconnect power to the light fixture at the breaker panel before installation.
- 2. Remove the diffuser lens from the light fixture (if applicable).
- 3. Remove any existing fluorescent tubes by rotating them a one quarter turn and sliding them out.
- 4. Remove ballast cover (cover may be secured with screws or tabs).
- 5. Retrofit light fixture according to the diagram applicable to your fixture.

SINGLE-ENDED CONNECTION



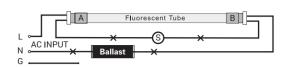
SINGLE-ENDED CONNECTION

DOUBLE-ENDED CONNECTION

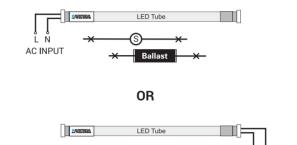


A. Retrofit luminaire with inductive ballast

- 1.Disconnect the wires between starter and ballast according to the figure.
- 2. Connect two wires to branch circuit L and N according to the figure.

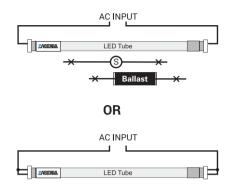


SINGLE-ENDED CONNECTION



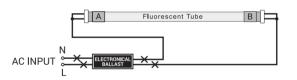
AC INPUT

DOUBLE-ENDED CONNECTION

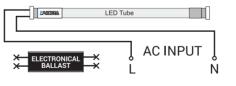


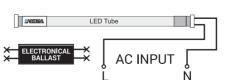
B. Retrofit luminaire with electronical ballast

- 1. Disconnect the wires between tombstone and ballast according to the figure.
- 2. Connect two wires to branch circuit L and N according to the figure.



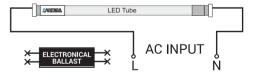
SINGLE-ENDED CONNECTION



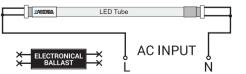


OR

DOUBLE-ENDED CONNECTION



OR

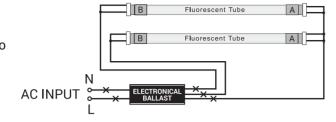


OR

OR

C. Retrofit luminaire with two lamps and one electronical ballast

- 1. Disconnect the wires between tombstone and ballast according to the figure.
- 2. Connect two wires to branch circuit L and N according to the figure.

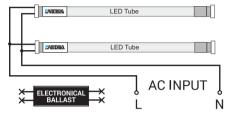


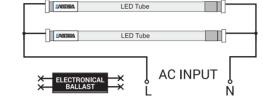
SINGLE-ENDED CONNECTION

OR

05

DOUBLE-ENDED CONNECTION

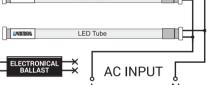


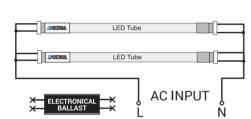


OR

OR

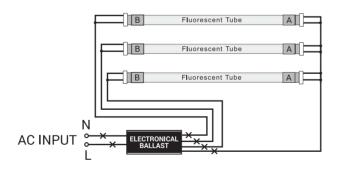






D. Retrofit luminaire with three lamps and one electronical ballast

- 1. Disconnect the wires between tombstone and ballast according to the figure.
- 2. Connect two wires to branch circuit L and N according to the figure.

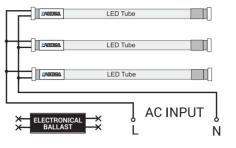


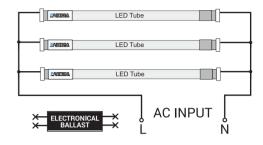
SINGLE-ENDED CONNECTION

OR

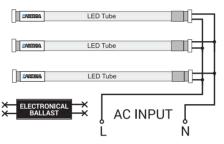
06

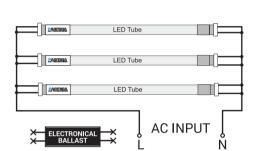
DOUBLE-ENDED CONNECTION





OR

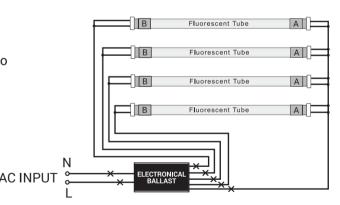


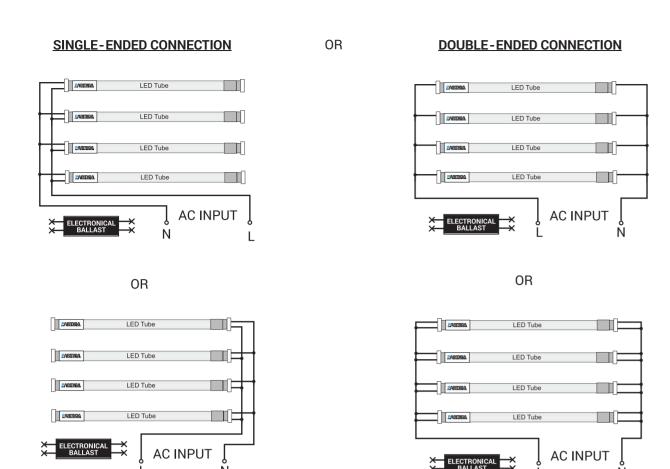


OR

E. Retrofit luminaire with four lamps and one electronical ballast

- 1. Disconnect the wires between tombstone and ballast according to the figure.
- 2. Connect two wires to branch circuit L and N according to the figure.





- 6. Insert LED tubes
- a. Read the label on the LED tube to ensure the power end of the LED is aligned with the powered tube socket, then insert the LED tube by sliding pins into sockets and rotating a quarter turn until the LED tube locks in place.
- b. LED lamps are now fully installed.
- 7. Replace the diffuser lens of the light fixture (if applicable).
- 8. After modification completed. Attach the Replacement Marking and Cautionary Label to a visible place on the luminaire and keep it visible after installation.
- 9. Restore power to the circuit/luminaire and test the light. If necessary, adjust position of the LED tube(s).