

Tetra[®] Dimming Module

LED ARCHITECTURAL SERIES

Product Codes 75612

LED System Features

- Certified to UL 2108
- IP54: Dry or damp location rated
- Compatible with any 12 or 24 Volt Tetra LED System
- Compatible with most 0-10V Dimming Controllers

For use in the following applications:

- Creates custom lighting levels

Save These Instructions

This product is intended solely for the use of non-residential architecture lighting and is not intended for use in any other applications.



BEFORE YOU BEGIN

Read these instructions completely and carefully

⚠ WARNING/AVERTISSEMENT

Risk of electrical shock. Disconnect power before servicing or installing product.

Risque de choc électrique. Couper l'alimentation avant le dépannage ou avant l'installation du produit.

Prepare Electrical Wiring



Electrical Requirements

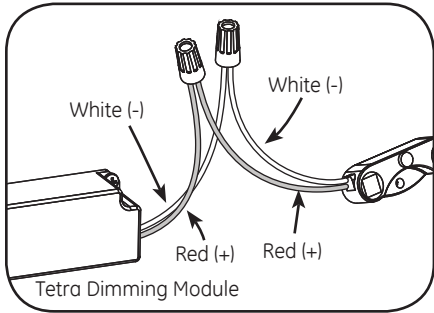
- Do not use in wet locations.
- The grounding and bonding of the LED Driver shall be done in accordance with National Electric Code (NEC) Article 600.
- Follow all National Electric Codes (NEC) and local codes.



imagination at work

Attach Tetra Dimming Module to Tetra LED Lighting Systems

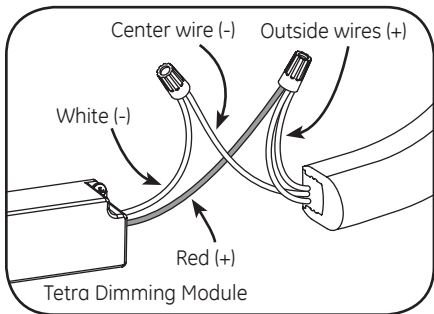
Option A



Tetra LED system - two wire systems

Connect the (+) red output wire of the Tetra Dimming Module to the red (+) input wire of the Tetra LED system. Connect the (-) white output wire of the Tetra Dimming Module to the (-) white input wire of the Tetra LED system. Refer to the Tetra LED system for specific connection and loading information.

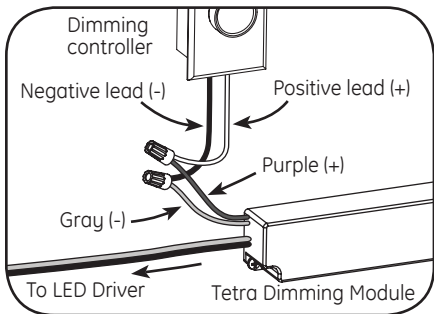
Option B



Tetra Contour

Connect the (+) outside wires of Tetra Contour to the (+) red wire of the Tetra Dimming Module. Connect the (-) inside wire of Tetra Contour to the (-) white wire of the Tetra Dimming Module.

Attach Tetra Dimming Module to Dimming Controller

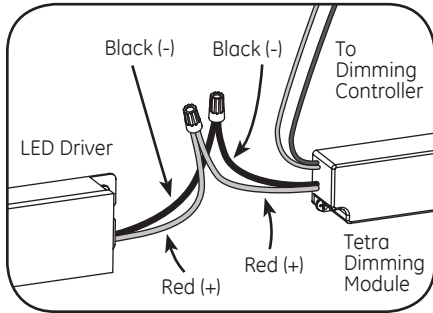


Connect the (+) purple and (-) gray wires of the Tetra Dimming Module to the 0-10V dimming controller. Refer to the dimming controller installation instructions for specific connection information.

Attach Tetra Dimming Module to 12V or 24V Tetra LED Drivers

⚠ CAUTION

Risk of damage. This is a low voltage device. Only 12/24VDC LED Driver should be attached to the black/red input leads. Damage to the dimming module may result if connected directly to 120/240VAC.



Connect the red (+) input wire of the dimming module to the red (+) output wire of the LED driver. Connect the black (-) input wire of the dimming module to the black (-) output wire of the LED driver.

Technical Specifications

Input Voltage (VDC)	12-24VDC
Output Voltage (VDC)	12-24VDC
Output Current (ADC)	5.0A max.
Dimmer (VDC)	0yt-10VDC
Environmental Operating Temperature Range	-40°C to +60°C
Storage Operating Temperature Range	-40°C to +80°C
Dimensions	5.2 in. x 1.4 in. x 1.0 in. (132 mm x 34 mm x 25 mm)
Limited Warranty	5 years

Technical Requirements

1. LED light output is controlled by DC voltage applied to the control leads (0-10V DIM purple and gray) on the dimming module.
2. The dimming control device must accept, or sink, the LED Driver's DC current flow (maximum of 500 microamps per dimming module).
3. The LED Driver control leads are isolated from the power lines and are rated Class II. As many dimming module units as desired may be connected in parallel in a bus configuration. The length, wire size, and number of dimming modules on the bus must be configured so that the DC voltage drop as a function of the resistance of the wire and the control current flowing does not exceed 0.2 volts for dimming controls. The maximum DC voltage drop must not exceed 0.5 volts for controls used as a minimummaximum, or hi-lo 2-level application.
4. Maximum light output will be achieved when the voltage on the control bus is opened (10 ± 0.5 volts).
5. If the control bus is shorted, the current on the control bus will be 500 microamps maximum per dimming module. All dimming modules on the control bus will then operate at minimum light level.
6. Two-level operation of the dimming module can be achieved using an open/close switch on the control bus. Maximum light is achieved when the switch is open and minimum light when the switch is closed (as can be determined from items 4 and 5 above).
7. The dimming module is intended for use with control voltages between 0 and 10 VDC. The control equipment must not impose a voltage greater than 11.0-volt peak maximum on the dimming module control leads.
8. The DC control voltage should have a maximum peak to peak ripple (low and high frequency ripple) not exceeding 10% of the average VDC. Short term transient voltage of the control devices must not exceed 14 volts.
9. Control equipment intended to control multiple dimming modules must be capable of sinking the current supplied to the control bus by the maximum number of dimming modules specified for the dimming control device. At any given level setting it must maintain control bus voltage constant within a range of $\pm 5\%$ as the number of dimming modules connected to the control bus varies from a minimum of one dimming module up to the maximum number specified for the control device.
10. LED Drivers of various ratings (120V, 230V...) may be mixed on the same control system.
11. The control bus uses Class II wiring. All control devices connected to the power line must be properly isolated between the power line and the control leads and be UL approved Class II equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class [A] RFLD complies with the Canadian standard ICES-003. Ce DEFR de la classe [A] est conforme á la NMB-003 du Canada.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This product is intended to be used as a lamp control gear that is installed after the mains control switch.



GE Lighting • 1-888-MY-GE-LED (1-888-69-43-533) • www.gelighting.com

GE Lighting Solutions, LLC is a subsidiary of the General Electric Company. Tetra is a trademark of GE Lighting. The GE brand and logo are trademarks of the General Electric Company. © 2014 GE Lighting Solutions, LLC. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.

ARCH031-R082514
GEH-5996 35-201578-188