

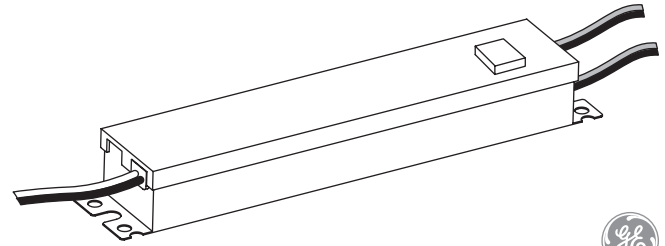
LED Control Module

24
Volt

GECLPS5-2

LED Control Module Features

- LED Control Module for GECLPS5 and GECLPS6 retrofit
- UL: Class 2 input



BEFORE YOU BEGIN

Read these instructions completely and carefully.

⚠ WARNING / AVERTISSEMENT

RISK OF ELECTRIC SHOCK

- Disconnect power at fuse box or circuit breaker before servicing or installing product.
- Properly ground Tetra® power supply.

RISK OF FIRE OR ELECTRIC SHOCK

- LED Retrofit Kit installation requires knowledge of sign electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign.
- Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

RISK OF FIRE

- Use only approved wire for input/output connection. Minimum size 18 AWG (0.82 mm²).
- Follow all local codes.

RISQUES DE DÉCHARGES ÉLECTRIQUES

- Coupez l'alimentation électrique à la boîte de fusibles ou au disjoncteur avant l'entretien ou l'installation du produit.
- Assurez-vous de correctement mettre à terre le bloc d'alimentation Tetra®.

RISQUE D'INCENDIE OU DE CHOC ÉLECTRIQUE

- L'installation de l'équipement de remplacement DEL exige la connaissance des systèmes électriques pour enseignes. Si non qualifié, ne tentez pas d'installation. Veuillez contacter un électricien qualifié.
- Risque d'incendie ou de choc électrique. Installez cet ensemble seulement dans des enseignes hôtes qui ont été identifiés dans les instructions d'installation et dont la capacité d'entrée de l'ensemble ne dépasse pas la capacité d'entrée de l'enseigne.
- L'installation de cet équipement de remplacement DEL peut impliquer le perçage ou le poinçonnage de trous dans la structure du panneau. Vérifiez le câblage et les composants inclus pour éviter d'endommager le câblage et les composants électriques.
- Ne pas faire ou modifier les trous ouverts dans une enceinte de câblage ou de composants électriques pendant l'installation de cet équipement de remplacement DEL.

RISQUES D'INCENDIE

- N'utilisez que des fils approuvés pour les entrées/sorties de connexion. Taille minimum 18 AWG (0.82 mm²).
- Respectez tous les codes locaux.

⚠ CAUTION / ATTENTION

RISK INJURY

- While performing installations described, gloves, safety glasses or goggles should be worn.

RISQUES DE BLESSURE

- Lors de l'exécution des installations décrites, des gants, des lunettes de sécurité ou des lunettes de protection doivent être portées.

Prepare Electrical Wiring



Electrical Requirements

- Limited to use in dry and damp locations. The suitability of rain enclosures shall be determined if intended for wet location.
- 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.
- These products are only suitable for connection to a circuit from a Class 2 power source. These products have not been evaluated for use when connected to a power source that does not comply with Class 2 voltage and energy limited supplies.

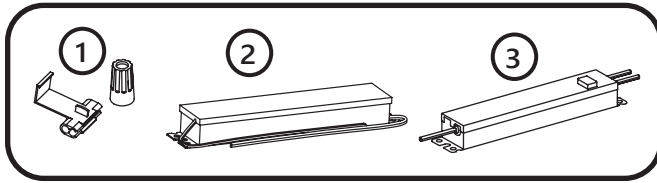
Save These Instructions

Use only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.



RETROFIT SIGN CONVERSION LED KIT FOR USE ONLY IN ACCORDANCE WITH KIT INSTRUCTIONS. KIT IS COMPLETE ONLY WHEN ALL PARTS REQUIRED BY THE INSTRUCTIONS ARE PRESENT. TROUSSE DE CONVERSION À DEL POUR LA MODERNISATION DES ENSEIGNES À UTILISER CONFORMÉMENT AU GUIDE D'INSTALLATION.

Components



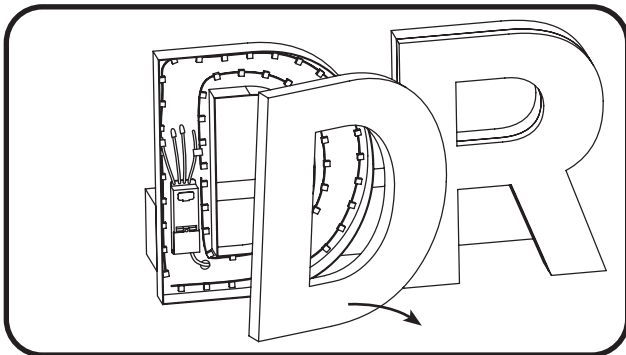
- 1 UL certified 22-14 AWG (0.33-2.08 mm²) wire connectors or 22-18 AWG (0.33-0.82 mm²) inline/IDC connectors
- 2 Tetra® 24 Volt Power Supply
- 3 Tetra® LED Control Module

Remove Existing Lighting Equipment

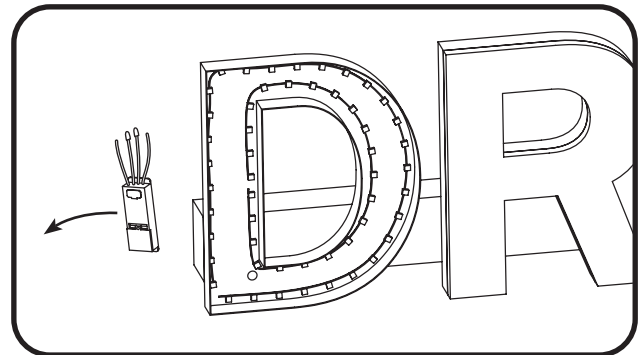
Prior to installation, survey the site for information regarding power and accessibility inside and outside the building. Ensure that the branch circuit supplying the existing LED power supply will be within the voltage ratings of the new LED power supply, and have a current rating not exceeding 20A, or that permitted by applicable local, state, or country electrical codes (whichever is less).

If removal of the existing lighting equipment (see Step 2 in this section) eliminates the disconnect switch, as required by applicable local, state, or country electrical codes; a new disconnect switch must be installed. If required, the disconnect switch shall be installed by qualified personnel, in accordance with applicable local, state, and country electrical codes.

Make sure the removal of lighting equipment does not compromise the integrity of the sign body (i.e. water intrusion). Repair and seal any unused openings in the electrical enclosure. Openings greater than 12.7-mm (1/2-in) diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk.



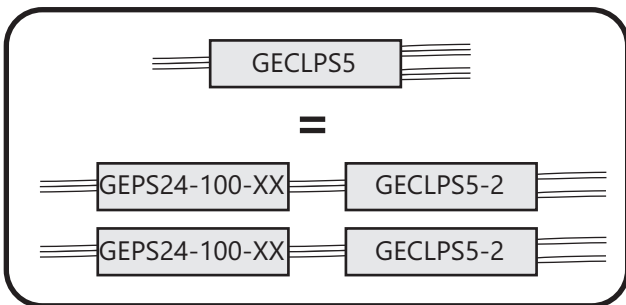
- 1 Turn off power and remove panel from the channel letter.



- 2 Remove the existing GECLPSPH or GECLPS6. Do not remove existing channel letters and wiring.

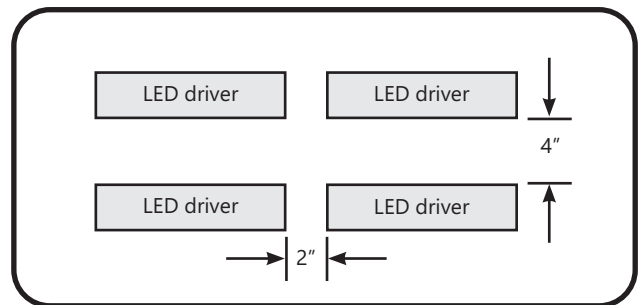
NOTE: Follow all federal and local regulations when disposing of existing LED drivers.

Electrical Connections



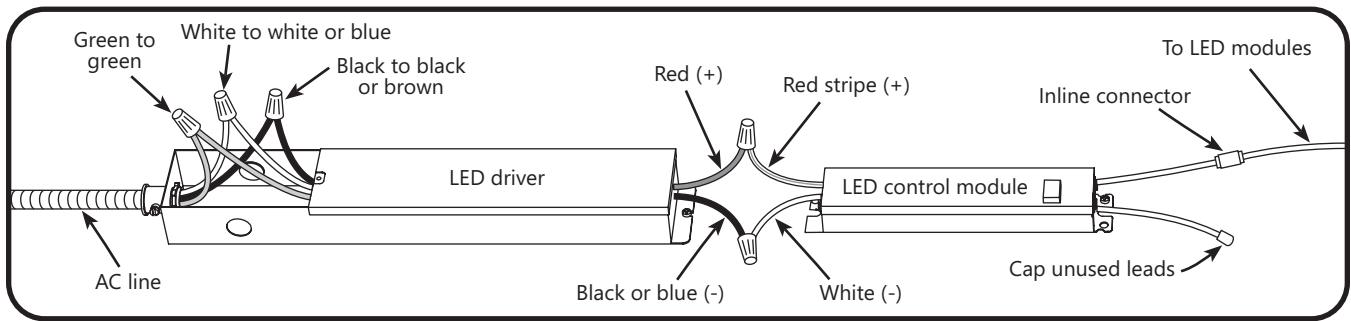
- 3 Two GECLPSPH-2 and two 24VDC, 100W, Class 2 Tetra LED Drivers will be required to replace each GECLPSPH LED driver. One GECLPSPH-2 and one 24VDC, 100W, Class 2 Tetra LED Drivers will be required to replace each GECLPSPHA LED driver.

NOTE: Mount the LED driver and LED control module within the sign or other enclosure.



- 4 If installing multiple LED control modules or LED drivers in the same compartment, keep them at least 2" (50.8mm) apart end to end and 4" (101.6mm) apart along the sides.

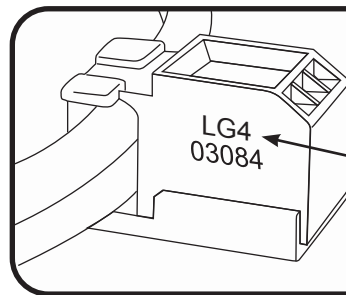
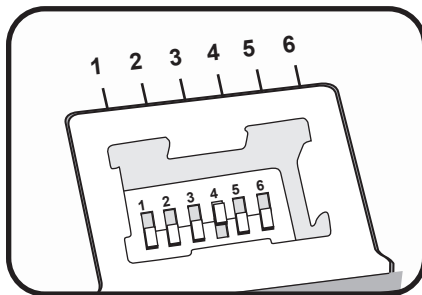
NOTE: All drivers except the GEPS24-200U-GLX2 or GEPS24-300U-GLX2 must be installed in an enclosure or be provided with a GEPSJB60 LED driver extended enclosure.



- 5 Wire AC line to LED driver(s) in accordance with the applicable local, state, and country electrical codes. Connect black to black or brown, white to white or blue, and green to green using 18 AWG (0.82mm²) wire connectors.
- 6 Connect the red stripe wire (+) of the LED control module to the red wire (+) of the power supply. Connect the white wire (-) of the LED control module to the black or blue wire (-) of the power supply.
- 7 Connect each LED control module output lead pair to each Tetra LED module supply lead pair using UL certified wire connectors. Cap each unused output lead with a UL certified wire connector.

WARNING: Do not connect outputs in series or parallel.

Dip Switch Settings



Character Code of Tetra® Strip	Dip Switch Setting
XX1	1
XX2	2
XX3	3
XX4	4
XX5	5
XX6	6

- 8 With power off, set the correct dip switch according to the **Dip Switch Setting Chart** (see below for detailed explanation).
NOTE: For proper operation, verify that only one switch is set to the "ON" position.
- 9 Re-place the dip switch cover and perform a quick test by turning the system on to ensure the channel letter LEDs are lit.

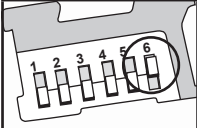
The following chart indicates the Tetra Strip load that can be placed on the Power Supply based on the character code on the LED and the dip switch setting chosen. For example, when the Tetra Strip is marked with the character code EB5, the "5" on the dip switch can be set to the ON position to achieve neon-equivalent performance. At this setting, the GECLPS5-2 power supply can support up to 64 ft. (19m) of the 6 LED per foot Tetra Strip. If you change the dipswitch setting and flip #4 switch to the ON position, the power supply can support up to 80 ft. (24m) of Tetra Strip. The footage guidelines vary based on the type of Tetra Strip being used. The charts below provide the total footage requirements for each Tetra Strip type. To determine the footage for each power supply bank, divide the total footage by four.

CAUTION: Avoid setting the dip switch to the ON position with any setting not listed in the chart unless stated otherwise (i.e. Border Tube Installation). If these requirements are not followed, the Tetra Strip and Power Supply warranty will be void.

Dip Switch Setting Chart for Tetra Strip						
Chart Assumes LED Code of "XX5"	Dip Switch Setting	GECLPS5 Retrofit		GECLPS6 Retrofit		Notes
		6 LEDs/ft. (20/m)	5 LEDs/ft. (16/m)	6 LEDs/ft. (20/m)	5 LEDs/ft. (16/m)	
	Matches Bin Code	64 ft. (19.0m)	80 ft. (24.4m)	16 ft. (3.6m)	20 ft. (6.1m)	Recommended for Optimal Performance
	-1	80 ft. (24.4m)	96 ft. (29.3m)	20 ft. (6.1m)	24 ft. (7.3m)	Intensity of the Tetra Strip will be reduced by approximately 10% to 20%
	+1	48 ft. (14.6m)	64 ft. (19.0m)	12 ft. (3.6m)	16 ft. (3.6m)	Intensity of the Tetra Strip will be increased by approximately 10% to 20%

Notes

- Always use dip switch 6 for Tetra Power White Strip.
- Power off the LED control module when setting the dip switches.
- Do not connect outputs in series or parallel.
- When installing power supply, connect to the appropriate sized building breaker or disconnect device for line and neutral connections, in accordance with local, state or country regulations.
- The grounding and bonding of the power supply and overall sign shall be done in accordance with National Electric Code (NEC) Article 600.

Dip Switch Setting Chart for Tetra Power White Strip						
	Dip Switch Setting	GECLPS5		GECLPS6		Notes
		2 LEDs/ft. (6 LEDs/m)	3 LEDs/ft. (9 LEDs/m)	2 LEDs/ft. (6 LEDs/m)	3 LEDs/ft. (9 LEDs/m)	
	Dip Switch 6	28 ft. (8.5m)	20 ft. (6.1m)	7 ft. (2.1m)	4.5 ft. (1.4m)	No bank may exceed 14 modules

Specifications

Performance Data	Min	Nominal	Max
Input Voltage (VDC)	23	24	25
Input Current (A)	-	-	3
Output Voltage (VDC)	3.1	-	3.8
Output Current (ADC)	-	-	4.0
Output Power (W)	-	-	30.4
Environmental Operating Temperature Range	-40°C	+25°C	+55°C*
Environmental Humidity (non-condensing)	0%	-	95%
Environmental Storage Temperature Range	-40°C	-	+85°C
Dimensions	9.5 in. x 1.7 in. x 1.2 in. (241 mm x 43.2 mm x 30.5 mm)		


*Maximum case temperature is 85°C

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.

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 Class [A] RFLD complies with the Canadian standard ICES-005. Ce DEFR de la classe [A] est conforme à la NMB-005 du Canada.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this equipment.

Conforms to the following standards: 

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Beachwood, OH 44122



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