

Tetra® 24/24 Module

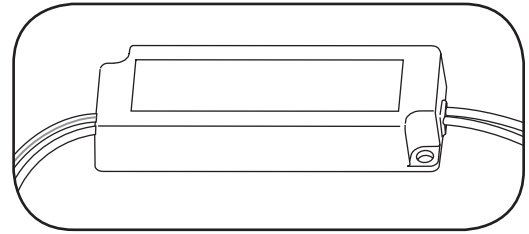
GESTBR 24/24

Installation Guide

24
Volt

24/24 Module Features

- Built to interface between the GEPS24-100U-NA/GEPS24-100U-GL & GEPS24-180U driver and the GEWHBIP2, GEWHBIP2-50K, GEWWBIP2-41K, GEWWBIP2, & GEBI56-1 LED modules only.
- UL: Class 2 input.



BEFORE YOU BEGIN

Read these instructions completely and carefully.

⚠ WARNING/AVERTISSEMENT

RISK OF ELECTRIC SHOCK

- Turn power off before inspection, installation or removal.
- Properly ground GE power supply enclosure.

RISK OF FIRE

- Use only UL approved wire for input/output connections. Minimum size 18 AWG (0.82mm²)
- Follow all NEC and local codes.
- Not to be submerged or used in a marine environment.

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.

RISQUES DE DÉCHARGES ÉLECTRIQUES

- Coupez l'alimentation avant l'inspection, l'installation ou le déplacement.
- Assurez-vous de correctement mettre à terre l'alimentation électrique GE.

RISQUES D'INCENDIE

- N'utilisez que des fils approuvés par UL pour les entrées/sorties de connexion. Taille minimum 18 AWG (0.82mm²)
- Respectez tous les codes NEC et codes locaux.
- Ne pas submerger ou installer dans un environnement marin.

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.

⚠ CAUTION/ATTENTION

RISK OF INJURY

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

RISQUE 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



- Acceptable for use in dry, damp and 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.
- 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.

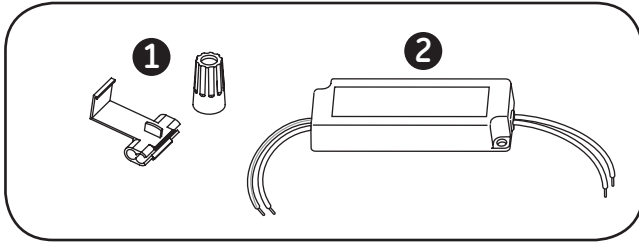
TROUSSE DE CONVERSION À DEL POUR LA MODERNISATION DES ENSEIGNES

À UTILISER CONFORMÉMENT AU GUIDE D'INSTALLATION.

current
powered by GE



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® 24/24 Module.

Preparation

If installing a new power supply: 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 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.

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.

Using the layout guidelines within the LED module installation instructions, determine required number of LED modules required to illuminate the sign.

The 24/24 Module must be supplied by an output of a Tetra® 24VDC Class 2 Power Supply as listed below. Using the Maximum Loading chart below, determine the number of Tetra® Class 2 Power Supplies required to power the number of LED modules required to illuminate the sign, so as not to overload the Tetra® Class 2 Power Supply chosen.

Specifications

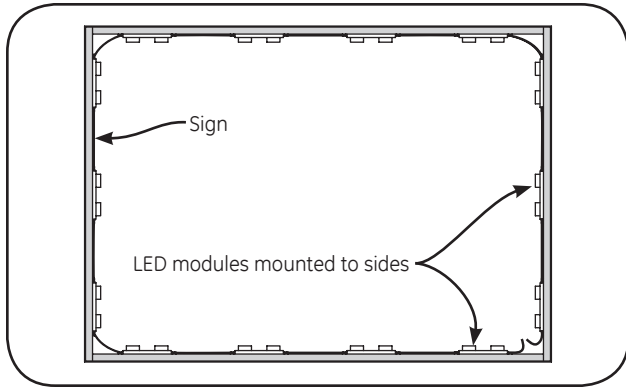
Maximum Loading per Tetra® 24/24 Module

SKU	Rating	When used with a	When used with a
		24V/100W Power Supply <i>Note: Load shall not exceed 4.0A</i>	24V/180W Power Supply <i>Note: Load shall not exceed 3.8A per 24/24 module on each (of 2) output channels</i>
GEWHBIP2, GEWHBIP2-50K, GEWWBIP2-41K, GEWWBIP2 GEBI56-1	24VDC, 2.40W per module	32 modules/37 ft. (11.28 m)	32 modules/33 ft. (10.06 m) per output channel

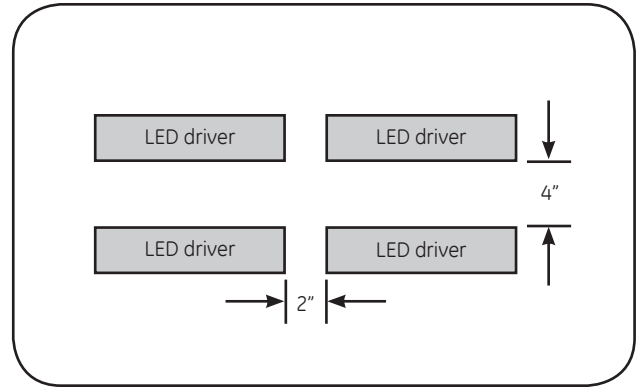
Follow the LED module instructions to properly mount the LED modules.

Exceeding the maximum recommended loading above may put the power supply in protection mode

Installation

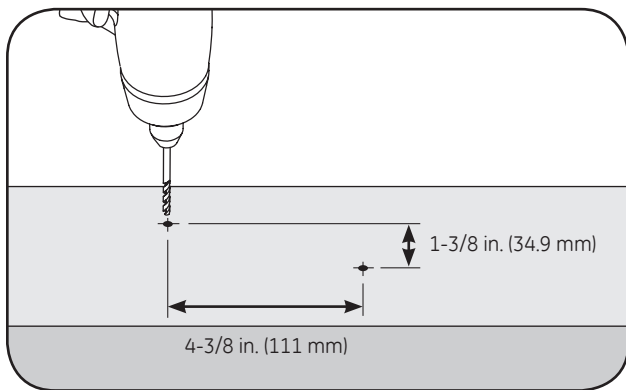


1 Turn off power and remove panel from the sign.

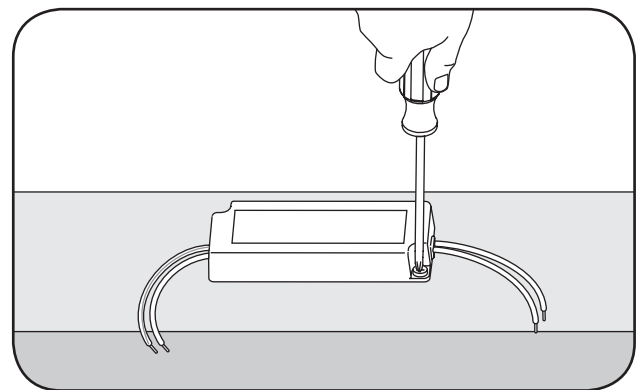


2 If installing multiple 24/24 Modules or LED drivers in the same compartment, keep them at least 2" (50.8mm) apart end to end and 4" (101.6mm) apart along the sides.

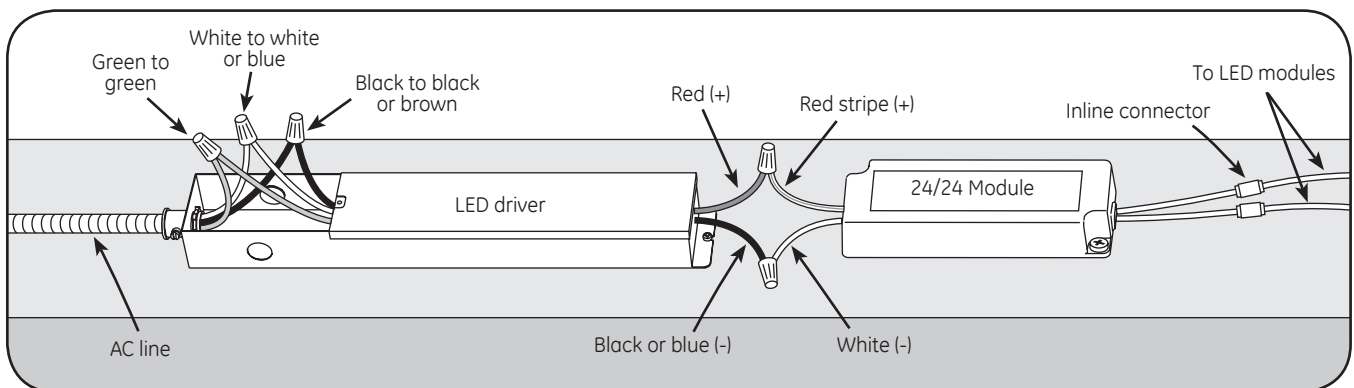
NOTE: All drivers except GEPS24-180U must be installed in a raceway or be provided with a GEPSJB60 LED driver extended enclosure.



3 Drill two mounting holes inside the sign.



4 Use rivets or screws to secure the 24/24 Module within the sign.



5 Using UL certified wire connectors, connect the red lead (Input +) of the 24/24 Module to the red lead (DC +) of the power supply, and the black lead (Input -) of the 24/24 Module to the black or blue lead (DC -) of the power supply.

6 Using UL certified wire connectors, connect the red-white lead (Output +) of the 24/24 Module to the (+) supply lead of the Tetra LED modules, and the white lead (Output -) of the 24/24 Module to the (-) supply lead of the Tetra LED modules.

Specifications

Performance Data	Min	Typical	Max
Input Voltage (VDC)	23	24	25
Input Current (A)	-	-	4
Output Voltage (VDC)	22.5	-	25
Output Current (ADC)	-	-	4
Environmental Operating Temperature Range	-40°C	+25°C	+60°C
Environmental Humidity (non-condensing)	0%	-	95%
Environmental Storage Temperature Range	-40°C	-	+85°C
Dimensions	4.9 in. x 1.8 in. x 0.8 in. (123.7 mm x 44.9 mm x 20 mm)		

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.

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

Conforms to the following standards:

UL wet location rated.



current
powered by GE

All trademarks are the property of their respective owners. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions. Current, powered by GE is a business of the General Electric Company.
© 2018 GE.

