

Class 1 Division 2 Hazardous Location Stack Light Signal Traffic Light - Multiple Lamp Colors Instruction Manual

Thank you for your purchase of the Larson Electronics HAL-TL-4X10W-C-PA.

WARNING:

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.
CRITICAL SAFETY INSTRUCTIONS:

- INSTALLATION SHOULD ONLY BE CONDUCTED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH NEC AND ANY RELEVANT LOCAL BUILDING CODES.
- RISK OF FIRE OR ELECTRIC SHOCK. FIXTURE INSTALLATION REQUIRES KNOWLEDGE OF FIXTURE'S ELECTRICAL SYSTEMS. IF NOT QUALIFIED, CONTACT A QUALIFIED ELECTRICIAN.
- BE CERTAIN ELECTRICAL POWER IS OFF BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- MAKE SURE THE SUPPLY VOLTAGE IS THE SAME AS THE FIXTURE'S RATED VOLTAGE.
- TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR SHARP OBJECTS. SUITABLE FOR DAMP LOCATIONS.

IMPORTANT

READ CAREFULLY BEFORE INSTALLING THIS FIXTURE. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE. THE HAL-TL-4X10W-C-PA MUST BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. PROPER GROUNDING IS REQUIRED FOR SAFETY.

WE STRONGLY ENCOURAGE ONLY A LICENSED ELECTRICIAN INSTALL, OPERATE AND MAINTAIN THIS PRODUCT. IF YOU ARE NOT QUALIFIED OR UNFAMILIAR WITH ANY ASPECT OF THIS INSTRUCTION SHEET, CONSULT AN ELECTRICIAN. THERE ARE NO SERVICEABLE PARTS INSIDE.



WARNING: MAKE SURE POWER IS TURNED **OFF** BEFORE STARTING THE INSTALLATION OR PERFORMING ANY MAINTENANCE.

RISK OF FIRE/ELECTRIC SHOCK – DISCONNECT POWER AT BREAKER BEFORE INSTALLING OR SERVICING.

RISK OF PERSONAL INJURY – FIXTURE MAY BECOME UNSTABLE OR DAMAGED IF NOT INSTALLED PROPERLY.

RISK OF BURN – ALLOW FIXTURE TO COOL BEFORE SERVICING.

WARNING

TO AVOID THE RISK OF FIRE, EXPLOSION OR ELECTRIC SHOCK, THIS PRODUCT SHOULD BE INSTALLED, INSPECTED AND MAINTAINED BY A QUALIFIED ELECTRICIAN ONLY, IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODES.

TO AVOID ELECTRIC SHOCK:

- BE CERTAIN ELECTRICAL POWER IS OFF BEFORE AND DURING INSTALLATION AND MAINTENANCE.
- PRODUCT MUST BE CONNECTED TO A WIRING SYSTEM WITH AN EQUIPMENT-GROUNDING CONDUCTOR.

TO AVOID EXPLOSION:

- MAKE SURE THE SUPPLY VOLTAGE IS WITHIN THE VOLTAGE RATING.
- ENSURE THE MARKED T RATING IS LESS THAN THE IGNITION TEMPERATURE OF THE HAZARDOUS ATMOSPHERE.
- DO NOT OPERATE IN AMBIENT TEMPERATURES ABOVE THOSE INDICATED ON THE PRODUCT NAMEPLATE.
- DO NOT OPERATE IF THE LENS, CORD, SEALS, HOUSING, RECEPTACLES, ETC. IS CRACKED OR DAMAGED. IF SO, DISCONTINUE USE AND CONTACT MANUFACTURER FOR REPLACEMENT PARTS.
- ALL FASTENERS SHOULD BE PROPERLY SEATED.

The HAL-TL-4X10W-C-PA Class 1 Division 2 LED Stack Light with Signal Horns from Larson Electronics is approved for use in hazardous environments where explosive and flammable gases, vapors, and dusts stand a potential to exist, as well as wet locations and marine environments. This hazardous location signal stack light is designed for routing traffic in industrial refueling stations and processing status indications in manufacturing facilities.

WIRING

Standard pigtail(flying leads) wiring

We strongly encourage a licensed electrician install this product, in all locations especially in outdoor areas where weatherproofing may be required. Universal voltage driver permits operation at 120/240V AC, or 24V DC.

Warning: Check product label for correct input voltage!

Attach supply line wires to the appropriate light fixture wires as shown in the diagram on page 3.

Secure each pair of wires according to the diagram. Utilize a junction box or similar device and take precautionary steps for weatherproofing all connections if installed in a location where water may come in contact with the unit. Ensure the unit is properly grounded and that wiring is done according to all local and national electrical/building codes.

Low Voltage DC

Connect power to power supply outputting low voltage at 24 Volts DC. This variable voltage allows greater versatility without affecting light output. Ensure deutsch connectors are properly connected (If applicable).

INSTALLATION PRECAUTIONS

- Do not attempt installation until you are familiar with all warnings, precautions, and procedures outlined within this instruction sheet.
- Do not install fixture in any classified location where the marked operating temperature exceeds the ignition temperature of the hazardous atmospheres. Consult fixture nameplate for suitability in specific hazardous locations.
- Do not install fixture in a location where the ambient temperature exceeds the maximum ambient temperature shown on the fixture nameplate.
- Refer to fixture nameplate for minimum supply wire temperature rating.
- Verify that the supply voltage agrees with fixture rating as indicated on nameplate.
- All local and national electrical/building codes must be followed when installing the lighting fixture. FOR CODE INTERPRETATION, CONSULT YOUR LOCAL CODE AUTHORITY.
- Product must be used only with globe intact and fully engaged. Replace cracked or damaged globe prior to use.

WARNINGS

- Electrical power must be off before and during installation and maintenance.
- Use only lamp size and wattage as shown on fixture nameplate.
- Fire and Explosion Hazard: Breakage of glass globe and exposure of lamp to a combustible atmosphere can result in an explosion and possible injury or death.
- During installation or maintenance, care should be taken not to scratch, score, nick, or chip the glass globe.
- Fixture must be grounded as required per paragraph 410-21 and article 250 National Electric Code and/or rule 30-500 and section 10 of Canadian Electric Code. Failure to properly ground this fixture will create an electrical shock hazard which can cause serious injury or death.
- Do not energize the fixture until the globe assembly has been installed to avoid exposing hot surfaces or electric arcing to hazardous atmosphere. Failure to comply with this warning can cause fire or explosion which can result in serious injury or death.

INSTRUCTIONS FOR INSTALLATION

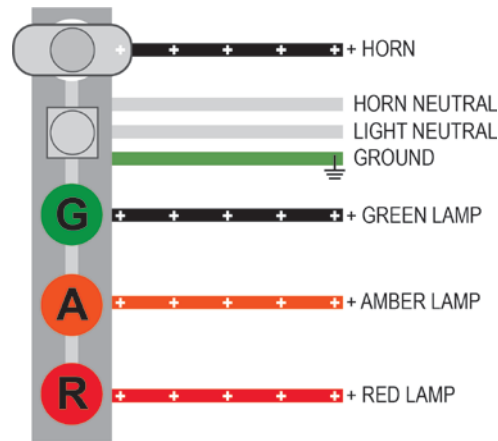
This unit ships preconfigured for the selected voltage and lamp configuration.

1. There are predrilled mounting holes on either side of the unit designed to be bolted to walls and flat surfaces for permanent and secure attachment. Utilize all holes and mount unit to a flat surface that can structurally support the load. At least two people are required for installation as the fixture is heavy.
2. Pull supply wires into junction box following all appropriate NEC measures for the area - (use proper temperature rated wire). Power is provided by individual conductors to allow independent operation of each lamp and tone combination.

NOTE: Fixture must be grounded. Check ground continuity before energizing the fixture.

3. See wire labels and wire diagram for connections. Connect individual power leads to separate switches or to a controller for controlling each color independently. Connect horn to power source. Complete circuit by attaching common marked "NEUTRAL". Light and horn are "instant-on" and will function once power is supplied.

VOLTAGE: (Check Product Label) Fixture comes preconfigured in selected voltage. This includes 120V AC, 240V AC or 24V DC and are not interchangeable. Visually inspect connections and ensure all proper electrical procedures for the hazardous area have been followed.



RELAMPING PROCEDURES

WARNING: Disconnect this fixture from supply circuits before removing globe to avoid exposing hot surfaces or electric arcing to hazardous atmospheres. Do not re-energize until the globe has been re- installed. Failure to comply with this warning can cause fire or explosion which can result in serious injury or death.

1. Remove guard. Screw globe guard (counterclockwise) to remove.
2. Remove globe. Carefully screw globe (counterclockwise) to remove.
3. Remove lamp.
NOTE: Verify that the replacement lamp complies with lamp specifications on fixture nameplate, then install. .
4. To reassemble globe assembly, refer to installation procedure.



MAINTENANCE

Caution: To avoid personal injury, disconnect power to the light and allow the unit to cool down before performing maintenance.

Warning: No user serviceable parts inside of fixture. Risk of electric shock. Removal of the lens will void the warranty.

1. Perform visual, mechanical and electrical inspections on a regular basis. We recommend routine checks to be made on a yearly basis. Frequency of use and environment should determine this. It is recommended to follow an Electrical Preventive Maintenance Program as described in NFPA 70B: Recommended practice for Electrical Equipment.
2. The lens should be cleaned periodically as needed to ensure continued photometric performance. Clean the lens with a damp, non-abrasive, lint-free cloth. If not sufficient, use mild soap or a liquid cleaner.
3. Inspect the cooling fins on the luminaire to ensure that they are free of any obstructions or contamination (i.e. excessive dust build-up). Clean with a non-abrasive cloth if needed.
4. Do not operate if the lens is cracked or damaged. All fasteners should be properly seated.

FIXTURE CLEANING

Periodic cleaning of the globe assembly may be needed to maintain full lighting efficiency and to prevent excessive dust or dirt accumulation, which could cause the fixture to operate at a higher temperature.

Cleaning the fixture components should be done with a non-abrasive solution of soap or detergent and water. Residual solution should be removed by clean water rinsing.

USE AND CARE

Unauthorized modification may impair the function and/or safety of this device and could affect the life of the equipment. Always check for damaged or worn out parts before using the device. Store it in a secure place out of the reach of children when not in use. Inspect for good working condition prior to storage and before re-use.

REPLACEMENT PARTS

The HAL-TL-4X10W-C-PA is designed to provide years of reliable performance. Should the need for replacement parts arise, please contact Larson Electronics.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.