Class 1 LED Beacon w/ 30 Strobing Light Patterns 1440 Lumens - 120-277V AC - Marine Applications Instruction Manual

Thank you for your purchase of the Larson Electronics CL1B-SS-PM-1227.

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 CL1B-SS-PM-1227 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:

USER SHOULD BE TRAINED IN THE PROPER USE AND MAINTENANCE OF THIS DEVICE. THIS LINE CORD IS INTENDED TO ALLOW OPERATORS TO EXTEND POWER TO EQUIPMENT WHEN STATIONARY OUTLETS ARE NOT READILY AVAILABLE.

IMPROPER USE OF THIS CORD, PLUG, AND RECEPTACLE CAN LEAD TO SERIOUS INJURIES OR DEATH TO PERSONNEL.

PERIODIC INSPECTION OF THE CORD IS NECESSARY.
THE CORD MUST BE ROUTINELY CHECKED FOR CUTS, BREAKS, OR ANY SEVERE ABRASIONS, AND IF ANY ARE FOUND, THE CORD MUST BE REPLACED BEFORE RESUMING USE.

The Larson Electronics CL1B-SS-PM-1227 Class 1 Pole Mounted LED Beacon is suitable for warning and safety notifications in marine/saltwater locations. This compact unit operates on 120-277V AC and supports 30 strobing patterns. A non-metallic weatherproof wiring box protects internal connections of the LED light. This unit is offered in range of colors and selectable entry points for mounting compatability.

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 120V - 277V AC.

Warning: *Check product label for correct input voltage!*

Attach supply line wires to the appropriate light fixture wires as shown in the diagram ➔



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.

INSTALLATION

- Carefully unpack the unit and place it near your mounting location.
- Mount the beacon in your desired location using the three predrilled holes located on the base. Wire routing should be taken into consideration when choosing a mounting location. This unit allows indoor or outdoor mounting as long as the appropriate wire routing is used.
- We strongly recommend that only a licensed electrician install this product.

Flash Patterns

The CL1B LED Beacon is programmed with 30 different flash patterns listed below.

Synchronous Flash Patterns

FP1: Single Alert 75 PHASE 1 (sim)

FP2: Single Alert 75 PHASE 2 (sim)

FP3: Quad Flash 75 PHASE 1 (sim)

FP4: Quad Flash 75 PHASE 2 (sim)

FP5: Double Flash 150 PHASE 1 (sim)

FP6: Double Flash 150 PHASE 2 (sim)

FP7: Double Flash 75 PHASE 1 (sim)

FP8: Double Flash 75 PHASE 2 (sim)

FP9: Single Flash 375 PHASE 1 (sim)

FP10: Single Flash 375 PHASE 2 (sim)

FP11: Single Flash 150 PHASE 1 (sim)

FP12: Single Flash 150 PHASE 2 (sim)

FP13: Single Flash 75 PHASE 1 (sim)

FP14: Single Flash 75 PHASE 2 (sim)

FP15: Single Alert 75 (alt)

FP16: Quad Alert 75 (alt)

FP17: Double Flash 150 (alt)

FP18: Double Flash 75 (alt)

FP19: Single Flash 375 (alt)

FP20: Single Flash 150 (alt)

FP21: Single Flash 75 (alt)

(sim): Front and rear LEDS fire simultaneously

(alt) Front and rear LEDS alternate

Non-synchronous Flash Patterns

FP22: Single Alert 75 PHASE 1 (sim)

FP23: Single Alert 75 PHASE 2 (sim)

FP24: Quad Flash 75 PHASE 1 (sim)

FP25: Quad Flash 75 PHASE 2 (sim)

FP26: Double Flash 150 PHASE 1 (sim)

FP27: Single Flash 150 PHASE 2 (sim)

FP28: Single Flash 75 PHASE 1 (sim)

FP29: Single Flash 75 PHASE 2 (sim)

FP30: Single Alert 75 (alt)

(sim): Front and rear LEDS fire simultaneously

(alt) Front and rear LEDS alternate

Synchronization

- To Sync two beacons, configure both beacons to display the same Phase 1 pattern.
- With the power off, connect the YELLOW wires from each beacon together.
- When the beacons are activated, their patterns will be synchronized.
- To configure the two light heads to alternate their patterns, advance the pattern of either beacon to the Phase 2 mode of the current pattern.

NOTICE: *Do not SYNC more than 8 beacons!*

Setting the Flash Pattern

Each pattern can be selected by pressing the momentary toggle switch. The selected pattern will remain during power cycles.

- Less than 1 second for the **NEXT** pattern
- 1 to 3 seconds for the **PREVIOUS** pattern
- 3 to 5 seconds for the **DEFAULT** pattern
- Greater than 5 seconds to **TURN OFF** the beacon

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.

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 CL1B-SS-PM-1227 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.