

Class I LED Beacon with 30 Strobing Light Patterns Motion Sensor - Pipe Mount - 120-240V AC Instruction Manual

Thank you for your purchase of the Larson Electronics CL1B-PMK-MS-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-PMK-MS-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 CL1B-PMK-MS-1227 from Larson Electronics is a Class 1 LED Beacon w/ Motion Sensor that works on 120-240 V AC and offers a choice of several colors. It is equipped with a 1" NPT pipe mount system and a motion sensor.

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 - 240V 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 1" NPT hub on the bottom. This hub is meant for attaching to pipes or poles.
- 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)	FP12: Single Flash 150 PHASE 2 (sim)
FP2: Single Alert 75 PHASE 2 (sim)	FP13: Single Flash 75 PHASE 1 (sim)
FP3: Quad Flash 75 PHASE 1 (sim)	FP14: Single Flash 75 PHASE 2 (sim)
FP4: Quad Flash 75 PHASE 2 (sim)	FP15: Single Alert 75 (alt)
FP5: Double Flash 150 PHASE 1 (sim)	FP16: Quad Alert 75 (alt)
FP6: Double Flash 150 PHASE 2 (sim)	FP17: Double Flash 150 (alt)
FP7: Double Flash 75 PHASE 1 (sim)	FP18: Double Flash 75 (alt)
FP8: Double Flash 75 PHASE 2 (sim)	FP19: Single Flash 375 (alt)
FP9: Single Flash 375 PHASE 1 (sim)	FP20: Single Flash 150 (alt)
FP10: Single Flash 375 PHASE 2 (sim)	FP21: Single Flash 75 (alt)
FP11: Single Flash 150 PHASE 1 (sim)	

(sim): Front and rear LEDS fire simultaneously
LEDS alternate

(alt) Front and rear

Non-synchronous Flash Patterns

FP22: Single Alert 75 PHASE 1 (sim)	FP27: Single Flash 150 PHASE 2 (sim)
FP23: Single Alert 75 PHASE 2 (sim)	FP28: Single Flash 75 PHASE 1 (sim)
FP24: Quad Flash 75 PHASE 1 (sim)	FP29: Single Flash 75 PHASE 2 (sim)
FP25: Quad Flash 75 PHASE 2 (sim)	FP30: Single Alert 75 (alt)
FP26: Double Flash 150 PHASE 1 (sim)	

(sim): Front and rear LEDS fire simultaneously
LEDS alternate

(alt) Front and rear

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

MOTION SENSOR OPERATION

When the motion sensor detects movement, the LED lights are turned on. Once the motion has stopped, the lights will turn off. **Sensitivity**, **Time Delay** and **Lux** can be adjusted with their respective control dials on the motion sensor.

1. The **SENSITIVITY** setting controls the distance in which the motion sensor will work. The lowest setting will trigger the motion sensor when motion is close. The highest setting will trigger the motion sensor when motion is far.
2. The **TIME** setting controls how long the unit remains illuminated following activation & after all motion ceases. The minimum time (fully anti-clockwise) is approximately 5 seconds and the maximum time (fully clockwise) is approximately 5 minutes. Set the control to the desired setting between these limits.
3. The **LUX** setting determines the level of darkness required for the unit to start operating. The setting is best achieved by the procedure below:

Set the LUX control knob fully anti-clockwise. The unit will now start operating at dusk. If you require the light to activate earlier, wait until the ambient light level reaches the level of darkness at which you wish the lamp to become operative, slowly rotate the control in a clockwise direction until a point is reached where the lamp illuminates. Leave the control set at this point. At this position, the unit should become operative at approximately the same level of darkness each evening. Observe the operation of the unit. If the unit is starting to operate too early (e.g. when it is quite light), adjust the control slightly anti-clockwise. If the unit starts to operate too late (e.g. dusk), adjust the control slightly clockwise. Continue to adjust until the unit operates as desired.

MOTION SENSOR POSITION

The motion sensor's position can be adjusted by loosening the hand screw on the side, repositioning, and tightening the hand screw.

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-PMK-MS-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.