

Operation Guide

Thank you for purchasing the Larson Electronics **CL1B-MS-1224** LED beacon. Follow the steps below for installing and maintaining your unit.

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.

12-24V DC MODEL (-1224)

RED + (POSITIVE)

BLACK - (NEGATIVE)

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.



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