Operation Guide

Thank you for purchasing the Larson Electronics **CL1B-480V** LED beacon. Follow the steps below for installing and maintaining your unit.

Installation

- Carefully unpack the unit and place it near your mounting location.
- Use the supplied foam gasket and 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.

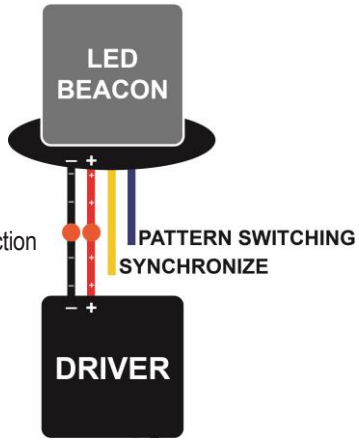
Pipe Mounting (optional):

- The beacon base will accept a standard 1" NPT pipe. Hand tighten the beacon base on the pipe thread until the pipe bottoms out inside the unit.

Wiring

LED Beacon

COLOR	FUNCTION	CONNECT TO
Red	Power	+VDC
Black	Ground	Chassis Ground
Blue	Pattern Switching	Chassis Ground
Yellow	Synchronization	See Operation Section



LED Driver

See wire diagram.
CL1B MUST be connected to the driver.
DO NOT connect CL1B directly to 480V AC!

Flash Patterns

The CL1B LED Beacon is programmed with 30 different flash patterns listed below. Temporarily connect Blue Wire to chassis ground to switch patterns.

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

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