

Installation & Mounting

Magnetic Mounting:



As with any magnetically-mounted warning device, its use on the exterior of a moving vehicle is at the sole discretion and responsibility of the user. This magnetic mount product provides a secure, temporary installation in most circumstances and is recommended for stationary use only.

The magnetic based beacon provides a secure, temporary installation. The beacon should be placed in the center of the roof where the east amount of curvature occurs. Check the magnet for debris before installation. Any foreign matter can reduce holding power and scratch the vehicle. The roof surface should be dry and have a dull, not glossy finish. A glossy, highly waxed surface will reduce the magnet's holding power. When placed, the beacon should adhere firmly. The user should not attempt to drive with the beacon in place should the unit slide or move easily.

Permanent Mounting:

The permanent mount beacon provides a secure, permanent installation. Use the supplied foam gasket and screws to mount the beacon in the desired location. Wire routing should be taken into consideration when choosing a mounting location.

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 Instructions

Magnetic Mounting:

The magnetic mount beacon is equipped with a light plug with rocker switch that plugs into a 12 Volt DC cigarette lighter outlet, rotate and push with reasonable moderate force to insure the best possible connection.

Permanent Mount:

The permanent mount beacon wire functions are as outlined below:

COLOR	FUNCTION	CONNECT TO
Red	Power	+12VDC
Black	Ground	Chassis Ground
Blue	Pattern Switching	Chassis Ground to Activate
Yellow	Synchronization	See Configuration Section
Purple	Low Power	Chassis Ground to Activate
White	Upward Facing Patrol LEDs	Chassis Ground to Activate

Operation

Low Power (Permanent Mount Only):

Connect the Purple wire to Chassis Ground to put the beacon into low power operation. Disable this wire to restore normal high power operation.

Upward Facing Patrol LEDs:

On permanent mount beacon, connect the White wire to chassis ground to activate the upward facing Patrol LEDs. Disable this wire to restore normal operation. Upward facing Patrol LEDs are flash pattern dependent on magnetic mount version.

Operation (cont.)

Flash Patterns:

The CL199 Series LED Beacon is programmed with 30 different flash patterns. Refer the section below for instructions on how to set the flash pattern. Note: The flash pattern of the CL199X/ECE63 models are equipped with the ECE65 compliant flash pattern only.

Synchronous Flash Patterns

FP #	Flash Pattern
FP 1	Single Alert 75 PHASE 1 (Sim)
FP 2	Single Alert 75 PHASE 2 (Sim)
FP 3	Quad Flash 75 PHASE 1 (Sim)
FP 4	Quad Flash 75 PHASE 2 (Sim)
FP 5	Double Flash 150 PHASE 1 (Sim)
FP 6	Double Flash 150 PHASE 2 (Sim)
FP 7	Double Flash 75 PHASE 1 (Sim)
FP 8	Double Flash 75 PHASE 2 (Sim)
FP 9	Single Flash 375 PHASE 1 (Sim)
FP 10	Single Flash 375 PHASE 2 (Sim)
FP 11	Single Flash 150 PHASE 1 (Sim)
FP 12	Single Flash 150 PHASE 2 (Sim)
FP 13	Single Alert 75 PHASE 1 (Sim)
FP 14	Single Alert 75 PHASE 2 (Sim)
FP 15	Single Alert 75 (Alt)
FP 16	Quad Flash 75 (Alt)
FP 17	Quad Flash 150 (Alt)
FP 18	Double Flash 75 (Alt)
FP 19	Double Flash 375 (Alt)
FP 20	Single Flash 150 (Alt)
FP 21	Single Flash 75 (Alt)

Non-Synchronous Flash Patterns

FP 22	Active Flash (Sim)	FP 27	Rotator 75
FP 23	Modular Flash (Sim)	FP 28	Rotator 125
FP 24	Modular Active (Alt)	FP 29	Rotator 250
FP 25	Modular Active (Sim)	FP 30	AUTORUN
FP 26	Rotator 50		

FP 27, 28, 29, 30: Front and Rear LEDs fire simultaneously. (Alt) - Front and Rear LEDs alternate

Synchronization (Permanent Mount Only):

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. Do not SYNC more than 8 beacons!

Setting the Flash Pattern:

Magnetic Base Version:

Depress the rocker switch on the lighter plug:

- 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

Permanent Mount Version:

Connect blue wire to black wire (chassis ground):

- 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



This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into light beam at close range.

WARNING!