

INSTALLATION & OPERATION MANUAL



MODEL QUAD-X Series

QUADRANT LED BEACON

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IMPORTANT: *Read all instructions and warnings before installing and using.*
INSTALLER: *This manual must be delivered to the end user of this equipment.*

Installation & 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 least 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.



This device, when magnetically mounted, is not intended for use on a moving vehicle.

Permanent Mounting:

The permanent mount beacon provides a secure, permanent installation. Remove the magnetic mounting hardware and use the supplied permanent mount brackets and screws to mount the beacon in the desired location. Wire routing should be taken into consideration when choosing a mounting location.

Wiring Instructions

All versions of the Quadrant LED Beacon are supplied with a 9' straight cord terminated with a Lighter Plug. The lighter plug has a push-button switch which serves as both ON/OFF control and Flash Pattern change switch. This plug may be used in either a 12VDC or 24VDC cigarette lighter outlet; rotate and push with reasonable moderate force to insure the best possible connection.

Features and Specifications

Operating Voltage: 10-30VDC, Reverse Polarity Protected



The use of this or any warning device does not insure that all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is your responsibility to be sure you can proceed safely before entering an intersection, driving against traffic, responding at a high rate of speed, or walking on or around traffic lanes.

The effectiveness of this warning device is highly dependent upon correct mounting and wiring. Read and follow the manufacturer's instructions before installing or using this device. The vehicle operator should insure daily that all features of the device operate correctly. In use, the vehicle operator should insure the projection of the warning signal is not blocked by vehicle components (i.e.: open trunks or compartment doors), people, vehicles, or other obstructions. This equipment is intended for use by authorized personnel only. It is the user's responsibility to understand and obey all laws regarding emergency warning devices. The user should check all applicable city, state and federal laws and regulations.

Code 3, Inc., assumes no liability for any loss resulting from the use of this warning device.

Proper installation is vital to the performance of this warning device and the safe operation of the emergency vehicle. It is important to recognize that the operator of the emergency vehicle is under psychological and physiological stress caused by the emergency situation. The warning device should be installed in such a manner as to: A) Not reduce the output performance of the system, B) Place the controls within convenient reach of the operator so that he can operate the system without losing eye contact with the roadway.

Emergency warning devices often require high electrical voltages and/or currents. Properly protect and use caution around live electrical connections. Grounding or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.

PROPER INSTALLATION COMBINED WITH OPERATOR TRAINING IN THE PROPER USE OF EMERGENCY WARNING DEVICES IS ESSENTIAL TO INSURE THE SAFETY OF EMERGENCY PERSONNEL AND THE PUBLIC.

Current:

Default Flash Current (Ave): <2.0 Amps @ 13.8VDC

Operation

Flash Patterns:

The Quadrant LED Beacon is programmed with 19 different flash patterns. Refer the section below for instructions on how to set the flash pattern.

1	Single flash 75 sim all flash (factory Default)
2	ECE R65 120FPM single flash
3	CA T13 75FPM single flash
4	Double flash 75 sim all flash
5	Swiftflash flash 75 sim all flash
6	Quad Flash 75 sim all flash
7	Single Flash 75 center-split
8	Single Flash 75 clockwise
9	Single Flash 75L clockwise
10	NFPA 75FPM Quad Flash
11	Five Flash sim all
12	Modu flash sim all
13	ECE R65 Double Flash
14	125FPM Rotating Flash
15	Single Flash 120 center-split
16	Single Flash 120 clockwise
17	Single Flash 120L clockwise
18	Three Flash 120 sim all flash
19	Cycle Flash
20	OFF (For Reference only. This flash pattern cannot be stored in the beacon's memory)

Setting the Flash Pattern: To change the flash pattern, depress the push-button switch on the lighter plug for -

- 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:

The beacons are completely sealed units designed to be maintenance free. Refer to the guide below for help with troubleshooting. Should the unit be diagnosed as malfunctioning, remove unit and replace with a new beacon.

TROUBLESHOOTING		
Problem	Probable Cause	Remedy
Beacon does not activate	a. No power to unit	a. Check Lighter Plug for loose connection
	b. Damaged or shortaged cabling	b. Check cables for damage
	c. Defective Beacon	c. Contact Service Dept.



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

WARRANTY

Code 3, Inc.'s L.E.D. emergency devices are tested and found to be operational at the time of manufacture. Provided they are installed and operated in accordance with manufacturer's recommendations, Code 3, Inc. guarantees all parts and components except the lamps to a period of 1 year, LED Lighthouse modules to a period of 5 years (unless otherwise expressed) from the date of purchase or delivery, whichever is later. Units demonstrated to be defective within the warranty period will be repaired or replaced at the factory service center at no cost.

Use of lamp or other electrical load of a wattage higher than installed or recommended by the factory, or use of inappropriate or inadequate wiring or circuit protection causes this warranty to become void. Failure or destruction of the product resulting from abuse or unusual use and/or accidents is not covered by this warranty. Code 3, Inc. shall in no way be liable for other damages including consequential, indirect or special damages whether loss is due to negligence or breach of warranty.

CODE 3, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY INCLUDING, WITHOUT LIMITATION, WARRANTIES OF FITNESS OR MERCHANTABILITY, WITH RESPECT TO THIS PRODUCT.

PRODUCT RETURNS

If a product must be returned for repair or replacement*, please contact our factory to obtain a Return Goods Authorization Number (RGA number) before you ship the product to Code 3, Inc. Write the RGA number clearly on the package near the mailing label. Be sure you use sufficient packing materials to avoid damage to the product being returned while in transit.

*Code 3, Inc. reserves the right to repair or replace at its discretion. Code 3, Inc. assumes no responsibility or liability for expenses incurred for the removal and/or reinstallation of products requiring service and/or repair.; nor for the packaging, handling, and shipping; nor for the handling of products return to sender after the service has been rendered.

PROBLEMS OR QUESTIONS? CALL OUR TECHNICAL ASSISTANCE HOTLINE (314) 996-2800

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