



Installation and Operation Instructions C3800 Series Surface Mount LED Heads

C3800 series LED heads are compact directional LED warning lights suitable for mounting anywhere on a vehicle. Colorless until illuminated, these discrete LED heads feature encapsulated electronics offering a high degree of environmental and vibration protection.

Additional benefits of these LED lights include low current draw, a long and maintenance free service life. These LED heads operate at 12-24 volts, and have multiple user-selectable flash patterns.



WARNING!

Failure to install or use this product according to manufacturers recommendations may result in property damage, serious bodily/personal injury, and/or death to you and those you are seeking to protect!



Do not install and/or operate this safety product unless you have read and understand the safety information contained in this manual.

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of you and those you are seeking to protect.
2. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation are vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that s/he can operate the system without losing eye contact with the roadway.
5. It is the responsibility of the vehicle operator to ensure during use that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles, or other obstructions.
6. The use of this or any other warning device does not ensure all drivers can or will observe or react to a 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.
7. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding warning signal devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

Contents: C3811:

- 1 x C3800 Surface Mount LED Head
- 1 x Installation and Operating Instructions
- 2 x Front mounting screws (#8 x 1 1/4)
- 1 x Mounting gasket

Specifications:

Size: C3811: 5.8" length, 1.9" width, 1.2" height

Weight C3811: 0.3 lbs.

Input Voltage: 12-24 VDC

Current Draw C3811: 0.26 Amps at 12.8 VDC
0.15 Amps at 25.6 VDC

Installation & Mounting:

Before installation, examine the LED heads for transit damage. Do not use damaged or broken parts.

Important! This unit is a safety device, and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.

Mounting:

The C3811 LED heads are surface mounted by screwing through the two front-mounting bosses.

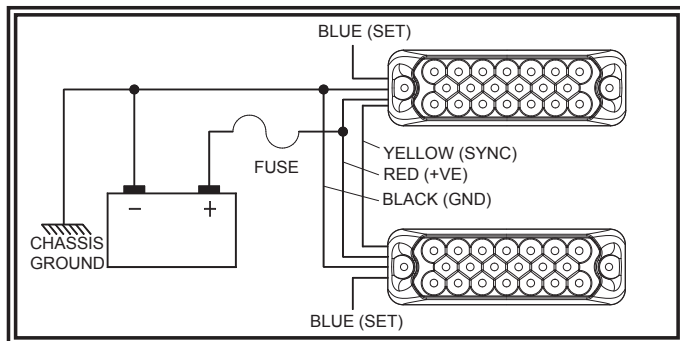
1. The C3811 series LED heads should be mounted to a flat surface or one with the least amount of curvature. The mounting location should allow the maximum visibility of the warning device to other road users, while allowing for sufficient wire access.

Caution: When drilling into any vehicle surface, make sure the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged

2. Using the supplied mounting gasket as a template, mark the drill hole locations on the mounting surface.
3. Drill mounting holes using a #31[0.120"] drill bit.
4. Drill a 25/64"[10mm] hole for the wires protruding from the rear of the unit at the location in Figure 1. Remove any sharp edges from this hole.
5. Mount the LED Head along with the mounting gasket, routing the wires through the 10mm hole and use additional grommets or cable protection as necessary to protect the wiring from any sharp edges. Secure the LED head to the surface using the #6 self-tapping screws as supplied.

Wiring Instructions:

The C3800 LED heads are self-flashing units. A 3A fuse must be used for each set of up to 4 LED heads



Wire functions are as follows:

- Black Wire:** Ground. Connect to either the battery negative terminal or a suitable chassis point.
- Red Wire:** Power. Switch to 12-24V to operate the lighthouse. Must be powered through the fuse, located as close to the battery terminal as possible.
- Blue Wire:** Flash pattern set. Touch wire to Ground. Apply 12-24V momentarily (< 1 sec) to cycle through the available flash patterns (see table below). See the Blue Wire Function table below.
- Yellow Wire:** Sync.

Flash Patterns:

The C3800 series LED heads can be configured to flash the following patterns (in the order below) by momentarily applying power to the blue wire as described in the wiring section. The LED head must be powered through the black and red wires to allow pattern selection.

Flash pattern			
No.	Style	Flash rate	Phase
1.	Single	75	A
2.	Single	75	B
3.	Double	75	A
4.	Double	75	B
5.	Quad	75	A
6.	Quad	75	B
7.	NFPA	75	
8.	Single	120	A
9.	Single	120	B
10.	Double	120	A
11.	Double	120	B
12.	Quad	120	A
13.	Quad	120	B

Blue Wire Function Table	
Push Time	Function
0-1 Sec.	Next Pattern/on
1-3 Sec	Previous Pattern
3-5 Sec.	Factory Default(Pattern 1: Single Flash 75 FPM p1)
5- Sec.	OFF

Manufacturer Limited Warranty and Limitation of Liability:

Manufacturer warrants that on the date of purchase this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request), and Manufacturer further warrants that this product is free from defects in materials and workmanship. This Limited Warranty extends for three (3) years from the date of purchase. Other warranties may apply, call Manufacturer for details. Manufacturer will, at its discretion, repair or replace any product found by the Manufacturer to be defective and subject to this Limited Warranty.

DAMAGE TO PARTS OR PRODUCTS RESULTING FROM TAMPERING, ACCIDENT, ABUSE, MISUSE, NEGLIGENCE, UNAPPROVED MODIFICATIONS, FIRE OR OTHER HAZARD; IMPROPER INSTALLATION OR OPERATION; OR NOT BEING MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS VOIDS THIS LIMITED WARRANTY.

ORAL STATEMENTS OR REPRESENTATIONS ABOUT THE PRODUCT WHICH MAY HAVE BEEN MADE BY SALESPeOPLE, DEALERS, AGENTS OR OTHER MANUFACTURER'S REPRESENTATIVES DO NOT CONSTITUTE WARRANTIES. THIS LIMITED WARRANTY MAY NOT BE AMENDED, MODIFIED, OR ENLARGED EXCEPT BY A WRITTEN AGREEMENT SIGNED BY AN AUTHORIZED OFFICIAL OF MANUFACTURER WHICH EXPRESSLY REFERS TO THIS LIMITED WARRANTY.

Exclusion of Other Warranties: MANUFACTURER MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE IMPLIED WARRANTIES FOR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED AND SHALL NOT APPLY TO THE PRODUCT. BUYER'S SOLE AND EXCLUSIVE REMEDY IN CONTRACT, TORT, OR UNDER ANY OTHER THEORY AGAINST MANUFACTURER REGARDING THE PRODUCT AND ITS USE SHALL BE THE REPLACEMENT OR REPAIR OF THE PRODUCT AS DESCRIBED ABOVE.

Limitation of Liability: IN THE EVENT OF LIABILITY FOR DAMAGES ARISING OUT OF THIS LIMITED WARRANTY OR ANY OTHER CLAIM RELATED TO THE MANUFACTURER'S PRODUCTS, MANUFACTURER'S LIABILITY FOR DAMAGES SHALL BE LIMITED TO THE AMOUNT PAID FOR THE PRODUCT AT THE TIME OF THE ORIGINAL PURCHASE. IN NO EVENT SHALL MANUFACTURER BE LIABLE FOR LOST PROFITS, THE COST OF SUBSTITUTE EQUIPMENT OR LABOR, PROPERTY DAMAGE, OR OTHER SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES BASED UPON ANY CLAIM FOR BREACH OF CONTRACT, IMPROPER INSTALLATION, NEGLIGENCE, OR OTHER CLAIM, EVEN IF MANUFACTURER OR A MANUFACTURER'S REPRESENTATIVE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. MANUFACTURER SHALL HAVE NO FURTHER OBLIGATION OR LIABILITY WITH RESPECT TO THE PRODUCT OR ITS SALE, OPERATION AND USE, AND MANUFACTURER NEITHER ASSUMES NOR AUTHORIZES THE ASSUMPTION OF ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH PRODUCT.

This Limited Warranty defines specific legal rights. You may have other legal rights, which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages.



10986 North Warson Road
St. Louis, MO 63114
Customer Service
(314) 426-2700
cs-c3@code3esg.com
www.code3esg.com

A Division of ESG | www.eccogroup.com