



LED SCENE LIGHT INSTALLATION & OPERATION MANUAL

LED SCENE LIGHT
37SCENE
46SCENE
79SCENE



Introduction

The 37SCENE, 46SCENE, 79SCENE LED Scene Lights are designed for the emergency vehicle market. The light heads are to be connected directly to +12 or +24 VDC systems.

Models 37SCENE, 46SCENE & 79SCENE meet the requirements for use in NFPA 1901 or GSA K-Spec compliant lighting packages.

Consisting of an LED base unit, lens, o-ring, base gasket, bezel gasket, and mounting screws, these units are easy to install.

IMPORTANT! Read all instructions before installing and using. Installer: This manual must be delivered to the end user.

WARNING!

Failure to install or use this product according to manufacturer's 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. 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.
2. 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.
3. 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.
4. 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/she can operate the system without losing eye contact with the roadway.
5. 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. Wait 10 minutes after turning off the power from system before touching any internal components.
6. Always wear hand and eye protection when handling electrical components.
7. **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.**

Unpacking and Pre-Installation

Carefully remove the light head from its protective packaging. Inspect the unit for transit damage. Report any damage to the carrier and keep the shipping carton. Verify the contents of the package (refer to Figures 6 & 7 on page 6).

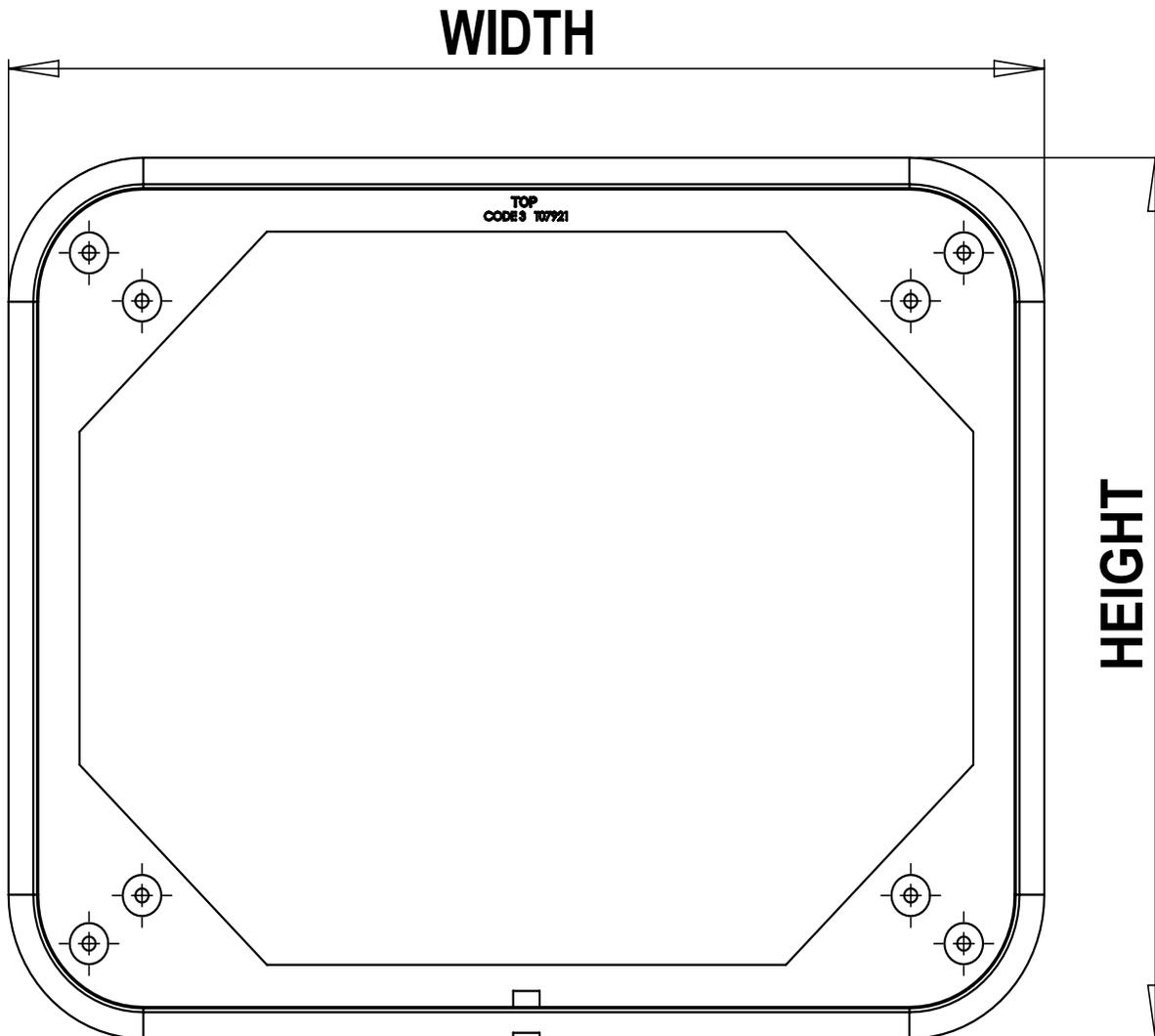
Installation

1. Determine the mounting options to be used. Select the desired mounting location for the light head assembly. The installation must accommodate the base gaskets. Refer to Figure 1 for gasket dimensions. Note: The gaskets are flexible. Do not use them for drill templates.
2. Verify free clearance behind the mounting surface for wiring and fasteners.
3. Using the appropriate template (Figures 2-4) cut the center opening for the wiring and install a grommet (customer supplied). Use a drill bit sized for the appropriate thickness of the mounting surface and a #10 sheet metal screw for drilling the screw holes. For example: for aluminum alloy sheet metal .125" thick, a #23 (.154") drill size is recommended.
4. Route the vehicle power wires and allow a minimum of 3 inches of slack to protrude from the center opening at each light head location. Use 18 AWG for wires up to 40 feet length, 16 AWG for wires up to 70 feet length.
5. Place the light head gasket (and bezel if used) over the light head location and run the vehicle power wire slack through the center opening of the gasket. Refer to Figures 6 & 7.

LED Perimeter Light Models	Wire Function	
	Red	Black
Models 37SCENE, 46SCENE, 79SCENE	+12 or +24	Ground

Connect the light head's black and red wires to the vehicle system's ground and positive (+12 or +24 VDC), respectively.

6. At the power source end of the cable determine if the cable length is acceptable. If a shorter length is required, coil the cable and tie with an electrical tie.
7. Verify proper light head operation by supplying electrical power to the system wires at the power source end of the cable.
8. Verify that the O-ring is properly seated onto the LED base unit.
9. Push the assembled electrical connectors through the center opening and into the vehicle.
10. Push the LED base unit (and bezel if used) into the gasket. The LED base unit is symmetric and does not have a preferred top or bottom. Verify that the gasket (and bezel if used) is properly oriented. The bezel is labeled with "TOP" and their part numbers at the top and have a drain slot at the bottom.
11. Mount the LED base unit and gasket (and bezel if used) using four #10 x 3/4" sheet metal screws. Optionally the unit may be mounted with very high bond tape (customer supplied).
12. Install the lens using four screws. Two screw options are supplied: four #10 x 3/4" screws or four #8 x 1-1/2" screws. The #10 screws attach the lens to the LED base unit. The optional longer #8 x 32 machine screws go through the LED base unit and tap into the vehicle body. If the longer #8 screws are used then first drill an appropriate pilot hole into the vehicle body.



MODEL	WIDTH	HEIGHT
37SCENE WITHOUT BEZEL	7.84"	3.67"
46SCENE WITHOUT BEZEL	7.09"	4.67"
79SCENE WITHOUT BEZEL	9.77"	7.78"
37SCENE	9.17"	5.00"
46SCENE	8.42"	6.00"
79SCENE	11.10"	9.11"

FIGURE 1
Gasket Dimensions
(For Layout Purposes Only. Do Not Scale.)

Power Requirements

LED Perimeter Lights are designed to be long life, full signal, light weight and low current draw.

The following table lists the number of LED's in each model and the average current draw for various conditions.

CODE 3 LED Perimeter Light Models	Number of LED'S	Average Current Draw, AMPS	
		Steady Burn 13.8VDC	Steady Burn 24.0VDC
37SCENE	10	3.0	1.5
46SCENE	12	3.3	1.7
79SCENE	14	3.8	1.9

Parts & Exploded Views

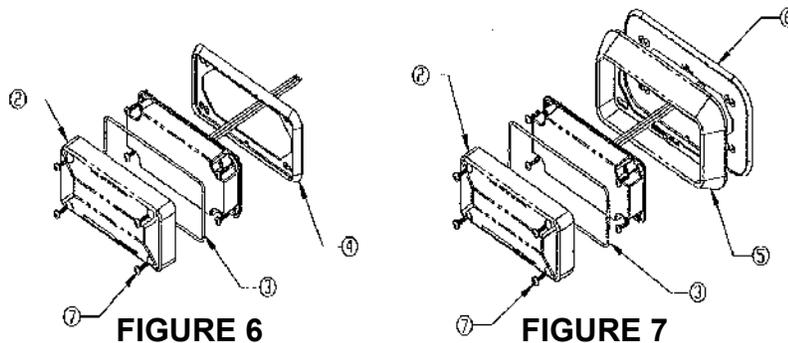
Standard Unit, Figure-5	2	3	4*	5*	6*
Code 3 Model Number - Description	Lens	Lens O-Ring	Gasket	Bezel	Bezel Gasket
37SCENE	250-0373-00	T07925	T07919	T07916	T07922
46SCENE	250-0374-00	T07926	T07920	T07917	T07923
79SCENE	250-0375-00	T07927	T07921	T07918	T07924

*** Gasket, item 4, only used for units without a bezel.
Bezel, item 5, and Bezel Gasket, item 6, only used for Bezeled Units.**

Maintenance

The lens is field removable for cleaning or replacement. Remove the lens by unscrewing the four corner lens screws. Use mild detergent, warm water and a soft cloth to clean both surfaces of the lens. Use of any other chemicals may void product warranty. Thoroughly dry before reinstalling.

Because plastic scratches easily, cleaning is only recommended when necessary. Do not subject the lenses to car washes that use brushes as these will scratch the lenses. Do not use a pressure washer.



NOTES:

Manufacturer Limited Warranty Policy:

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). This Limited Warranty extends for Sixty (60) months from the date of purchase.

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.

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