



Installation and Operation Instructions 7460 Series LED Beacon

The compact 7460 series Profile™ LED Beacon incorporates a simple yet highly effective and robust design featuring an overhead heatsink allowing removal of the flange when the unit is pipe mounted. The 7460 features a unique Pulse 8 flash pattern that human vision is highly sensitive to in the periphery, increasing potential visibility where vehicle hazards are not in direct line of sight. SAE Class I light output and a 5 year warranty combined with the usual maintenance-free, low amp draw benefits of LED technology make this an ideal light for any application.



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. 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 trying 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, 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.

Specifications:

Size: 7460 6.4" dia. x 3.1" high
7460-VM 8" dia. x 4" high

Weight: 7460 approx. 1.2 lbs.
7460-VM approx. 2.5 lbs.

Input Voltage: 12, 24, & 36 VDC systems

Flash Rate: 75 ± 5 FPM

Temp. Range: -30°C to +50°C

Input Current: Less than 1 amp
Maximum power consumption: 39 watts

Installation & Mounting:

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.

Carefully remove the beacon and place it on a flat surface. Examine the unit for transit damage, and locate all parts. If damage is found, or parts are missing, contact the transit company or ECCO. Do not use damaged or broken parts.

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

Permanent Mounting:

1. Select the desired location on a flat surface for the beacon to be mounted. The visibility of the flash and ease of wiring access should be taken into consideration in the selection of the mounting location.
2. Using the base as a template, mark the three mounting hole locations (see Figure 1).
3. Drill the holes using a 7/32" drill size.
4. A fourth hole may be drilled for wire access as shown in Figure 1, or route through a grommet or the wires may be routed through the slot in the base for external access.
5. Connect the power wires as shown in the wiring section.
6. Test beacon operation before proceeding.
7. Mount the beacon with #10 hardware.

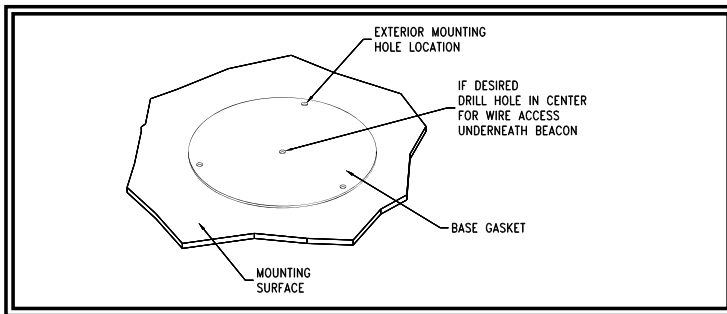


Figure 1

Pipe Mounting:

1. Place the beacon at an appropriate location to provide maximum signal effectiveness.
2. If desired, the Flange Mount may be removed by unscrewing it from the lens base prior to installation.
3. Route wires through pipe to beacon.
4. Connect the beacon to the wire run using the splice terminals provided.
5. Test beacon operation before proceeding.
6. Polycarbonate Fresnel lens has integral 1" - 11.5 NPT female pipe thread mounting feature. Thread beacon to pipe and tighten.

Wiring:

The wiring for this configuration is as shown in Figure 2 below. All wiring should be a minimum of 18AWG. The positive line must have a 5 amp fuse, as shown. A switch may be used to control the on/off function.

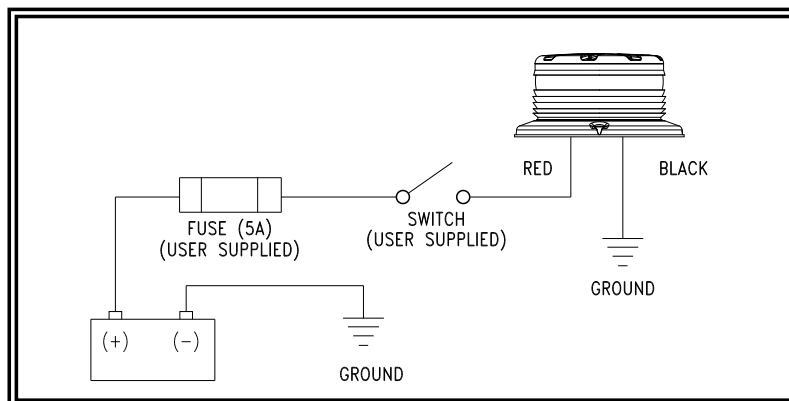


Figure 2

Temporary Mounting, Vacuum-Magnet Mount:

The Vacuum-Magnet Mount feature includes a suction cup on the bottom of the beacon, with a magnet inside of the suction cup, for a secure, temporary mount. The beacon should be placed in the center of the roof where the least amount of curvature occurs. Before installing, make sure the mounting surface is clean and there is no debris on the bottom of the beacon or on the roof of the vehicle, which could reduce the holding power of the suction cup and magnet. Place and remove the beacon without sliding to avoid scratching the paint on the vehicle. After placement, the beacon should adhere firmly to the surface. If the unit slides or moves easily, a proper installation has not been obtained. To release the vacuum, lift the tab to release the airlock. To protect the Vacuum-Magnet Mount assembly, return beacon to the box when not in use. **Do not attempt to attach the beacon to an ice-covered surface.**

WARNING! Maximum recommended vehicle speed for safe operation using the Vacuum Mount model is 65 mph (104 km/h), when fitted to the center of a vehicle roof of steel construction. Higher speeds could cause the mount to fail, resulting in the beacon flying off of the vehicle, which could cause damage to other vehicles, and injury or death to the passengers.