



WHELEN AEROSPACE TECHNOLOGIES

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Installation Guide/ICA:
90375()-series
Models 9037501 - 9037504
P/N: 01-0790375-01 through -04
LED Position Light/Strobe Assembly

TSO-C30c TYPE I, II & III APPROVED
 TSO-C96a CLASS II APPROVED

The conditions and tests required for TSO approval of this article are minimum performance standards. Those installing this article either on or within a specific type or class of aircraft must determine that the aircraft installation conditions are within the TSO standards which include any accepted integrated non-TSO functions. TSO articles and any accepted integrated non-TSO function(s) must have separate approval for installation in an aircraft. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements.

POSITION LIGHT:

Operational Voltage: 28 VDC (nominal)
Input Current: 0.25 Amps

EQUIPMENT LIMITATIONS: An approved lighting system consists of two lights, one located on each wingtip. The baseplate must be mounted parallel to the vertical and horizontal centerlines of the aircraft to project the patterns properly. The strobe tube assembly must be connected to a strobe power supply, such as Whelen model 70888, 70879 or other approved models.

AIRWORTHINESS LIMITATIONS: The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under §43.16 and §91.403 of the Federal Aviation Regulations, unless an alternative program has been approved.

No airworthiness limitations are associated with the installation of the light assembly.

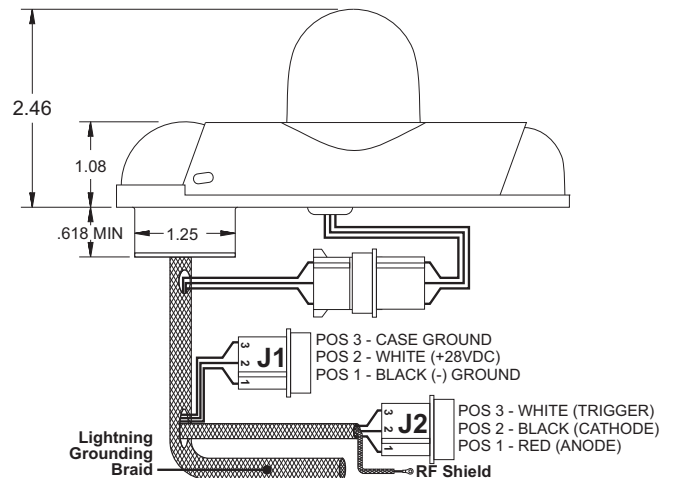
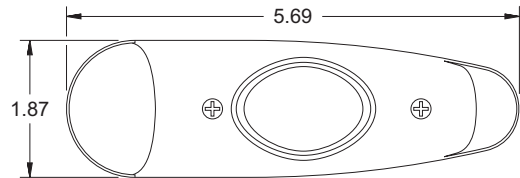
CONTINUED AIRWORTHINESS: The 90375 series LED wingtip position light assembly is designed with 3 forward LED's and two aft LED's. If any one LED fails, the unit must be repaired or replaced. Inspect the lens. Replace if there is excessive scratching, discoloration or cracking. For additional lens maintenance detail, see SAE ARP5637.

PERIODIC INSPECTIONS: An annual inspection shall be performed unless the OEM specifies a shorter interval.

INSTALLATION PROCEDURES: The following information is to assist in the installation of a WAT 90375 Light System.

1. Choose the appropriate 90375() series replacement light assembly.
2. Make sure the existing system is equipped with an appropriate sized breaker. Connect the Position Light (J1) to existing mating 28VDC connector (Whelen model #A442).
3. Connect the Air Frame ground to the case ground.
4. Connect the strobe, J2, to the strobe power supply as shown in the figure. It is recommended that the RF shield be connected to the strobe power supply chassis and the lightning grounding braid be connected to the Air Frame ground.

5. Carefully remove the lens retainer and lens from the light assembly. **CAUTION!** Do not touch the LEDs with either fingers or sharp objects, as this could soil or damage the LEDs and effect the optical performance of the light.
6. Position the base of the new light assembly onto the mounting surface. Insert three (3) #6-32 pan head screws into the mounting holes (clearing the wires) and tighten firmly. Reinstall the forward position lens so that the two notches are positioned under the shroud, with each notch equidistant to the centerline of the retainer mounting post.
7. Reinstall lenses and retainer so as to clear the two internal wires.
8. Check all avionics systems for interference from the installation.
9. A flight check should be performed by a properly certified pilot.
10. If required, update aircraft records utilizing FAA Field Approval (Form 337) or equivalent.



Aviation

