

WHELEN[®]

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Installation Guide: Model 71055() series Model 7105501 P/N:01-0771055-01 LED Anti-Collision Light Assembly

TSO-C96a
 CLASS III;
 APPROVED



The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standards. TSO articles must have separate approval for installation in aircraft. The article may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements.

OPERATING INSTRUCTIONS:

Nominal Operational Voltage: 28VDC
 (Operation from 22V - 32V)

Input Current:

Average: 0.3 Amps
 Pulse 1.5 Amps
 Flashrate: 45 ±5 FPM

The Model 7105501 LED anti-collision light assembly meets the requirements of FAR 91.205(c)(3).

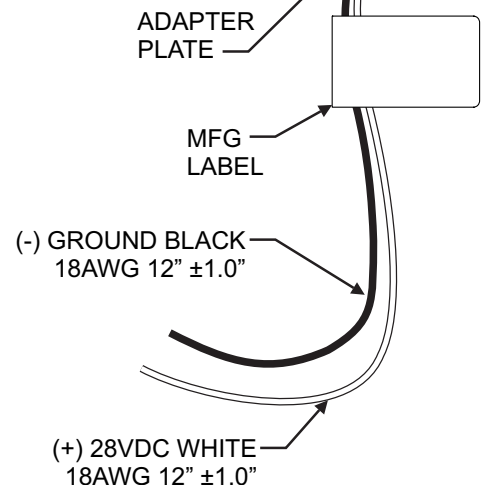
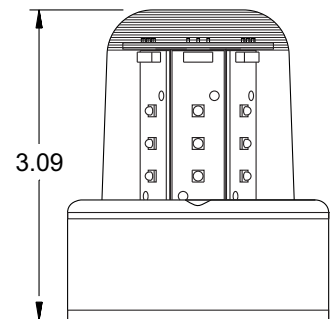
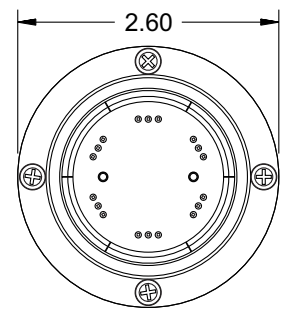
EQUIPMENT LIMITATIONS: An approved anti-collision light assembly should be located so that their light will not impair the crew's vision or detract from the conspicuity of the position lights. The baseplate must be mounted parallel to the vertical and horizontal centerlines of the aircraft to project the patterns properly.

Certain types of installations may require additional testing.

CONTINUED AIRWORTHINESS: The 7105501 LED anti-collision light assembly is designed with 6 vertical columns consisting of 3 LEDs each. Should any one LED or any vertical column fail, the unit must be repaired or replaced. **NOTE:** To reduce eye strain, use an optical filter such as dark glasses or a blue covering dome during LED inspection. Inspect the lens and replace if there is excessive scratching, discoloration or cracking.

INSTALLATION PROCEDURES: The following information is to assist in the installation of a Whelen LED Anti-collision Light System.

1. Using the mounting detail information provided, prepare the aircraft for means to secure the light assembly.
2. Carefully remove the #4 Phillips screw and lens retainer. Remove the lens. **CAUTION!** Do not touch the LEDs with either fingers or sharp objects. This could soil and/or damage the LED and effect the optical performance of the LEDs. Remove the 4 Phillips head screws securing the adapter plate to the light assembly. Remove the adapter.
3. Using the appropriate hardware, install the adapter plate to the aircraft.
4. Route the wires through the opening in the adapter plate. Connect the light inputs according to the chart shown. Connect the power lead to an appropriately sized breaker. Connections to be in accordance with FAA approved methods.
5. Reinstall the light assembly onto the adapter plate and insure that all leads are clear of any obstructions and secured as required.
6. Install gasket, lens and lens retainer. Confirm proper gasket fit. Reinsert screws and tighten firmly.
7. All inverted (bottom) mounted units shall require waterproofing of the base assembly to the aircraft. **NOTE:** Drill a 1/8" hole in the center of the lens for bottom mount units.
8. Check all avionics systems for interference from this installation.
9. A flight check should be performed by a properly certified pilot.
10. Update aircraft records, complete Form 337 and obtain FAA field approval for installation as necessary.



Aviation

