



WHELEN AEROSPACE TECHNOLOGIES

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**Installation Guide/ICA:  
 Aviation model 9045000  
 P/N 01-0790450-00  
 LED Tail Position and  
 Anti-Collision Light Assembly**

TSO-C30c TYPE 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.*

**SPECIFICATIONS:**

Nominal Operational Voltage: .....28 VDC  
 (Operation from 24-32 VDC)  
 LED Position Light: ..... 0.26 Amps  
 LED Anti-Collision Light (Average): ..... 0.8 Amps  
 LED Anti-Collision Light (Pulse@0.25 sec.): ... 4.1 Amps  
 Flashrate..... 45± 5 per min.

**EQUIPMENT LIMITATIONS:**

An approved lighting system consists of three lights, one located on the tail and one located on each wingtip. Model 9045000 is a tail position and anti-collision light. The baseplate must be mounted parallel to the vertical and horizontal centerlines of the aircraft to project the patterns properly. The tail light assembly must be mounted behind a clear lens.

Certain types of installations may require additional testing.

**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 LED tail position and anti-collision light.

**CONTINUED AIRWORTHINESS:**

The tail position light is designed with 6 LEDs. The anti-collision light is designed with 54 LEDs. If any one LED fails the unit must be repaired or replaced.

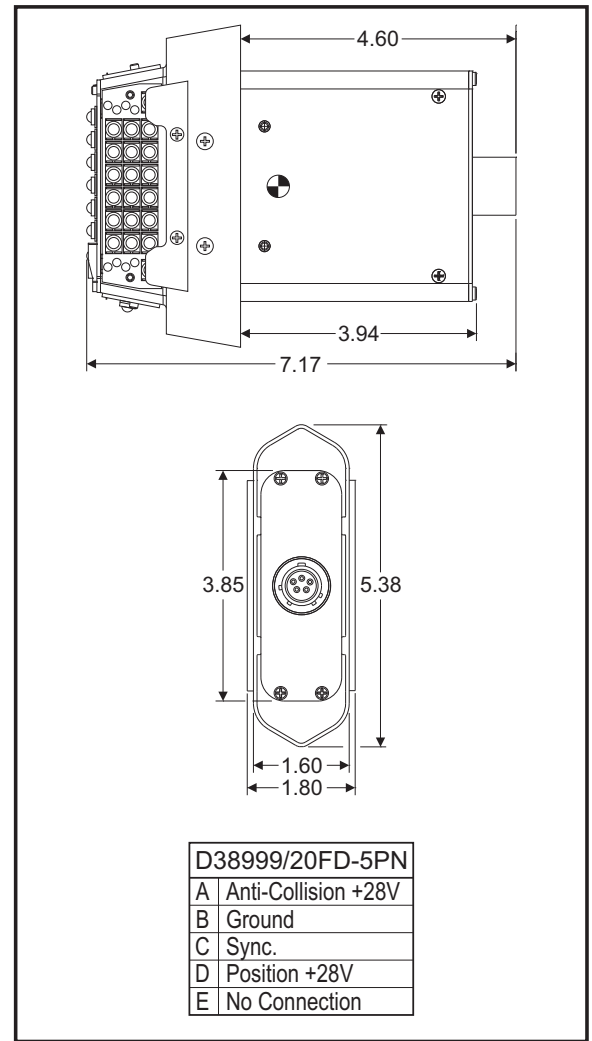
Note: The unit has an internal diagnostic circuit to detect failures. After 20-25 seconds if a failure is detected the amber failure light will illuminate.

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

**INSTALLATION PROCEDURES:**

- Using the mounting detail information provided, prepare the aircraft for means to secure the LED light assembly. Remove any existing mounting adapters.
- Connect the inputs according to the chart shown. Connect the power leads to an appropriately sized breaker. Connections to be in accordance with FAA approved methods.
- Using appropriate hardware, install the light assembly and insure that all leads are clear of any obstructions. Ty-rap as required. Secure the light assembly using vibration resistant threaded fasteners.

- Check all avionics systems for interference from this installation.
- A flight check should be performed by a properly certified pilot.
- If required, update aircraft records utilizing FAA Field Approval (Form 337) or equivalent.



Aviation