

# WHELEN<sup>®</sup>

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**Installation Guide:**  
**Model(s) 9045301, 9045302**  
**P/N(s): 01-0790453-01, -02**  
**LED Wingtip Anti-Collision /**  
**Position Light Assembly**

**TSO-C30c**  
**TYPE I & II;**  
**APPROVED**



(Shroud not shown)

**TSO-C96a**  
**CLASS II;**  
**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.*

**EQUIPMENT LIMITATIONS:**

An approved forward lighting system consists of at least two lighthoods, one mounted on each wingtip. A separate flasher assembly, such as model 9045600, is required for each light assembly. The unit must be mounted parallel to the vertical and horizontal centerlines of the aircraft to project the patterns properly. This light assembly must be mounted behind a clear lens.

The maximum length of the interface cable between the light assembly and the flasher/current source is 20 feet using 20 AWG wire.

Certain types of installations may require additional testing.

**SHROUD REQUIREMENT:**

If justified by the Aircraft installation and additional FAA testing of compliance to TSO-C30c and TSO-C96a the shroud may not be required.

Remove and discard the two, #6 screws that are used to secure the shroud. Carefully remove the shroud. **CAUTION:** Do not touch the LED lens.

**CONTINUED AIRWORTHINESS:**

The anti-collision light is designed with 36 LEDs. The position light is designed with 12 red or 10 green LEDs.

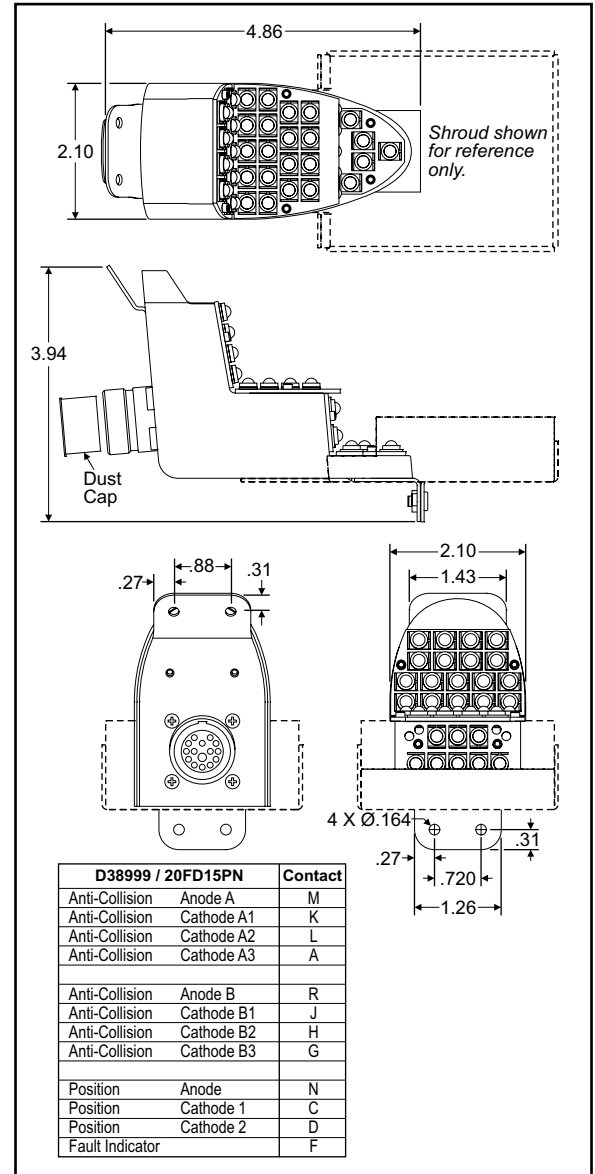
If any one bank fails, the flasher module should be checked. If the module checks good, replace the lighthood. If any one LED fails, the unit must be repaired or replaced.

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

**INSTALLATION PROCEDURE:**

The following information is to assist you in installing a Whelen light system. The installation procedure described in the following text will be confined to a single light installation, but is identical for multiple light installations.

1. Choose the appropriate Model 90453( ) light assembly.
2. Connect the inputs according to the chart shown. Connections to be in accordance with FAA approved methods.
3. Remove and discard the two #6 screws holding the shroud to the unit. Carefully install the shroud as shown in Figure 1.
4. Using appropriate, approved hardware, install light assembly and insure that all leads are clear of any obstructions and ty-rap as required. Secure light assembly, using vibration resistant threaded fasteners.
5. Check all avionics systems for interference from this installation.
6. A flight check should be performed by a properly certified pilot.
7. Update aircraft records, complete Form 337 and obtain FAA field approval for installation, as necessary.



Aviation