

# WHELEN<sup>®</sup>

ENGINEERING COMPANY INC.

51 Winthrop Road  
 Chester, Connecticut 06412-0684  
 Phone: (860) 526-9504  
 Fax: (860) 526-2009  
 Internet: [www.whelen.com](http://www.whelen.com)  
 Sales/Service e-mail: [aviation@whelen.com](mailto:aviation@whelen.com)

## Installation Guide: Aviation model 7145702 P/N 01-0771457-02 Flasher/Current Source



TSO-C30c  
 TYPES I, II & III /  
 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.

### SPECIFICATIONS:

Nominal Operational Voltage:..... 28 VDC  
 (Operation from 22-32 VDC)  
 Input Current (with 905690x Lighthead):  
 LED Forward Position Light ..... 0.23 Amps  
 LED Anti-Collision Light (Pulse@.25 Sec.) ..... 3.9 Amps  
 LED Anti-Collision Light (Avg.) ..... 0.73 Amps  
 LED Infrared Light (Pulse@.25 Sec.) ..... 0.3 Amps  
 LED Infrared Light (Avg.) ..... 0.06 Amps  
 Flashrate..... 45 ±5 Per. Min.

### EQUIPMENT LIMITATIONS:

An approved Anti-Collision / Position Light System consists of at least 2 flasher/current source units, each connected to a LED anti-collision, position and infrared light lighthead.

Per FAR 23.1401(d) or 25.1401(d), do not operate the anti-collision light and the infrared light at the same time.

The infrared light is a non-TSO function.

Certain types of installations may require additional testing.

### CONTINUED AIRWORTHINESS:

If any bank of LEDs fail, the lighthead module should be checked. If the module checks good, replace the flasher.

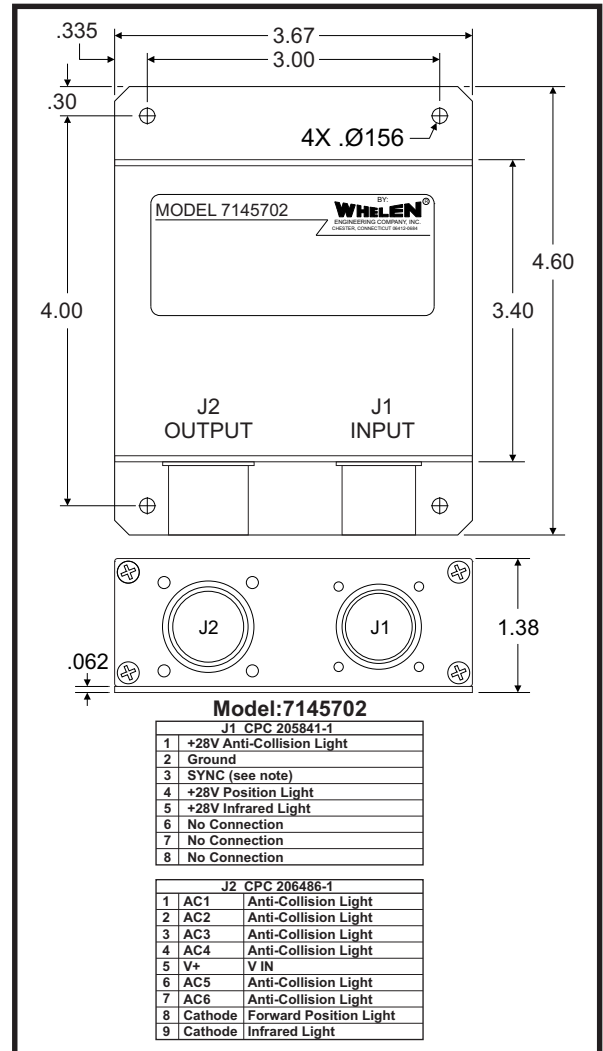
Note: to reduce eye strain, use an optical filter such as dark glasses or a blue covering dome during LED inspection.

Note: An anti-collision light will automatically shut-off after 9-10 flashes if a failure is detected.

### INSTALLATION PROCEDURES:

1. Consider areas or locations designated by the aircraft manufacturer. Check that breakers are properly rated.
2. Attach the flasher using the (4) 0.156 dia. mounting holes.
3. Connect the inputs according to the chart shown. Connections to be in accordance with FAA approved methods.
4. Check all avionic systems for interference from the installation
5. A flight check should be performed by a certified pilot
6. Update aircraft records, complete form 337 and obtain FAA field approval for installation, as necessary

Note: SYNC is a low power, bi-directional control signal. Connecting to the synchronize signal of any Whelen LED anti-collision assembly will cause the lights to flash at the same time. If synchronization is not necessary, the connection may be left open.



**For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)**