



INSTALLATION MANUAL

POSISTROBE CP™

Tail/Rudder Position & Strobe LED Light

1. PRODUCT INFO

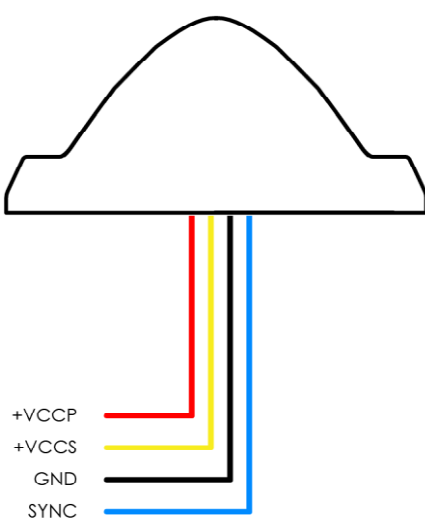
The PosiStrobe CP is a new generation rudder white position and strobe light. It fits almost all the standard rudder mounts of aircraft and also features an optional aluminum adapter mount plate pictured in the installation page. An extremely lightweight, aerodynamic and low-profile design make this the light of choice for any certified aircraft requiring a rear coverage light due to wingtip light coverage zone limits. The PosiStrobe series is the most imitated and copied light by our competitors, but there is ONLY one PosiStrobe, don't be fooled by competitive "clones", we were the first and we are the only ones with our exclusive circuitry, advanced optics and reflectors and candela performance.

MAIN FEATURES:

- 2-in-1 Position & Strobe light ideal for tail, rudder or rear facing mounts
- Optics designed to exceed FAA/ICAO/EASA requirements
- 9-36 volt DC input range
- no external power supply or strobe unit
- light synchronization feature
- minimum drag profile
- unmatched circuit technology
- advanced computer and goniophotometer engineered optics

These aircraft lights meet both TSO C30c and C96a design specifications and EXCEED all the specific requirements and standards of TSO C30c, C96a, SAE AS 8037 and AS8017a, plus DO-160.

2. WIRING DIAGRAM



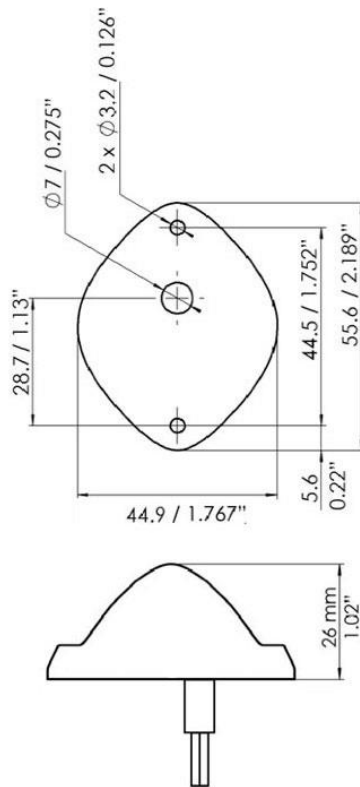
3. CONTROL & POWER INPUTS:

+VCCP	- positive position power supply line
+VCCS	- positive strobe power supply line
GND	- negative common power supply line (ground)
SYNC	- strobe synchronization line (mutually interconnect on all installed AveoFlash lights)

4. TECHNICAL SPECIFICATION

Dimensions:	<i>56 mm x 45 mm x 27 mm 2.19" x 1.77" x 1.06"</i>
Weight:	<i>60 g / 2.12 oz</i>
Operating Voltage Range:	<i>9 – 36 VDC</i>
Input power – position (@28V):	<i>4.5 W</i>
Input power – strobe (@28V):	<i>54 W</i>
Current – position (@28V):	<i>0.16 A</i>
Current – strobe (@28V):	<i>2 A peak</i>
Repetition Flash Rate of Strobe:	<i>50 cycles per minute</i>
Exceed requirements of:	<i>- TSO C30c C96a - SAE AS 8037 and AS8017a - DO-160F</i>
Recommended size of mounting screw:	<i>M3, stainless steel recommended. Length depends upon placement location on wing tips.</i>
Supplied cable:	
Wire Type is AWG 20	
Length of pigtail wires is 11 inches / 270 mm	
Reverse polarity protected	YES
Waterproof	YES
Vibration-proof	YES
Shock-proof	YES
Dust-proof	YES
Over Voltage protected	YES

5. TECHNICAL DRAWING



6. TESTING THE FUNCTION OF THE AVEO LIGHTS BEFORE INSTALLATION

All Aveo Aviation lights undergo rigorous testing prior to being released from our engineering manufacturing department. This testing involves a burn-in time as well as other function testing. No light is released for sale without undergoing this extensive operational testing.

When you receive the Aveo Aviation Lights, and wish to test the function of the lights prior to installation on your aircraft, please note the following:

1. Please review the written information that is enclosed in the packaging. Warranty information as well as a cautionary note about power supply removal is enclosed with each package.
2. Remove the lights from the package. Note that there are four (4) wires coming from each light. These wires are:
 - a. Black wire – Ground wire (negative lead)
 - b. Red wire – Position/Navigation light function wire (positive lead)
 - c. Yellow wire – Strobe light function wire (positive lead)
 - d. Blue wire – used if the synchronization of the Aveo lights is selected
3. Testing of the function of each light can be done with a regular 12V/5A dc power supply (not a battery charger). Connect the black wire to the ground (negative) leads of a power supply, then connect the red wire to the positive (+) leads on the power supply. The

position/navigation light, either red or green on the front side and white on the back side should light up. While the red wire is still in contact with the positive side of the power supply, connect the yellow wire to the positive lead. Both the position/navigation part of the light and the strobe function should work. **For the Galactica Series of lights, the strobe function is separate from the nav function and can be tested separately.** To test the strobe function separately, just connect the yellow wire only to the positive terminal of the power supply while the black wire is connected the ground side of the power supply. Connecting the blue wires from each light together (and not to the ground or positive terminals on the battery) should show that the lights are flashing together and indicates the synchronization feature is working properly. When installed on the aircraft, using the aircraft's power (14 or 28 volts), the lights will be at their maximum intensity.

After testing, the lights can be installed on the aircraft.

IMPORTANT NOTES:

1. Under no circumstances should any power supply other than a 9-36V DC, or a 12/24 volt battery be used to test the lights. Do not use: Battery chargers, battery back-up power devices, or other bench avionics testing methods to test the aviation lights. The lights are functional between 9 and 36 volts. Use of a battery charger or other power unit to test the lights will void the warranty and may damage the lights.
2. All power supplies for existing strobe lights, flasher beacons, etc. are required to be removed from the aircraft prior to the installation of the Aveo lights.

8. CARE AND CLEANING OF YOUR AVEO ENGINEERING AVIATION LIGHTS

When you receive your Aveo Engineering Aviation Lights, they will have been factory polished and ready to install on the aircraft. Upon installation, just give the lights a good coat or two of a quality automotive polish. This should protect the lights from dirt and other environmental factors. Once or twice a month, just refresh the polish and hand buff to bring back the lights to factory like new condition.

If the lights need a deeper cleaning, they can be polished with a good automotive cleaner wax and/or a liquid polishing compound. The liquid polishing compounds can normally be found at automotive parts stores or an automotive paint store. After using a polishing compound, just give the lights another coat of an automotive polish and you will again protect the lights against dirt, etc.. An electric buffing machine, with a lamb's wool cover, can also be used for deeper cleaning and polishing. Under no circumstances should any petroleum based product be used to clean the lights.