



INSTALLATION INSTRUCTIONS

SunTail Position/Strobe Light

PARTS INCLUDED IN KIT:

Item	Description	Kit No.
1.	SunTail Assembly	(1 each)
2.	Molex 5 pin female connector housing	(1 each)
3.	Molex 5 pin male connector housing	(1 each)
4.	Female pins for Molex connector	(5 each)
5.	Male pins for Molex connector	(5 each)



SunTail LED Position/Strobe LIGHT INSTALLATION:

The SunTail LED position/strobe light is intended for certified aircraft use and should be installed by experienced personnel. The recommended installation location is the vertical stabilizer/rudder, or rear-facing structure of the aircraft. Ensure the location provides for function as intended and does not interfere with the pilot's safe operation of the aircraft.

1. Mount the SunTail assembly using 2 each 4-40 countersink screws (not provided) with mounting screws in a vertical orientation.
2. Route 20 AWG wires, in a protected fashion, to the SunTail light mounting location. It is recommended to install a 3 amp breaker in-line for wire run protection. Consult the wiring interface section, below, for wiring details.
3. If desired, utilize the included Molex connectors to allow for quick connect/disconnect of the electrical interface. If unfamiliar with terminating these connectors, please see the Molex Connector Crimp Termination PDF document on our website.
4. Connect the wiring per the WIRING INTERFACE detail below.
5. Apply power to the position light (RED lead) and verify that both sides illuminate.
6. Apply power to the strobe input (YEL) and verify that the unit flashes on and off; the sync lead (GRN lead) will synchronize the SunTail unit's strobe to our complementary nav/strobe products, the ExP or NS-series of strobes, if desired.

WIRING INTERFACE:

1. The red (RED) wire (pin 1 of Molex connector) is the position power input. Applying power to this input turns on the position lights.
2. The black (BLK) wire (pin 2 of Molex connector) is the ground wire, and is connected to the electrical system ground.
3. The yellow (YEL) wire (pin 5 of Molex connector) is the strobe power input. Applying power to this input turns on the strobe (flashing) light. Applying power to this input enables strobe mode regardless of whether or not power is applied to the red wire.
4. The green (GRN) wire (pin 3 of Molex connector) is the sync lead. In the situation where there are ExP or NS-series wingtip nav/strobes also installed, this lead synchronizes the SunTail strobe to both wingtip strobes. Not connecting the GRN leads of each ExP or NS-series will allow the strobes to flash independently (asynchronously).

AIRCRAFT WIRING NOTE:

Prior to SunTail installation, it is critical that the aircraft wiring be continuity-tested to ensure that the aircraft leads connecting to the product's RED and YEL leads not be shorted to ground, as this may cause internal damage to the SunTail as well as blow the aircraft, or inline, fuse/breaker.

SunTail LED Position/Strobe LIGHT SPECIFICATIONS

1.0 Introduction:

The AeroLEDs SunTail is an LED position/strobe light. The SunTail is packaged in a sealed durable aluminum base with clear anodizing, integral polycarbonate lens with UV resistant hard coating applied, vibration-resistant power supply/control circuitry, and eighteen high power white LED's. The SunTail is designed for 14 and 28 Volt Systems without modifications or adjustment. The SunTail is 1.71" wide, 1.14" high and 2.61" deep.

2.0 Physical Specifications:

- 2.1 Electronics: Solid-state hard-mounted PCB assembly.
- 2.2 Base: Aluminum, clear anodized. **NOTE:** Do Not Paint base; this is the SunTail heatsink.
- 2.3 Lens: Polycarbonate lenses permanently adhered to base.
- 2.4 Weight: 3 oz.
- 2.5 Size: 1.71"x1.14"x2.61"

3.0 Electrical Specifications:

- 3.1 Input Voltage: 14 & 28 Volt Systems (9.0 VDC to 36 VDC)
- 3.2 Input Current: 3.0 Amps typical on 12 Volt system, decreasing to 1.5 Amps typical on 24 Volt system
- 3.3 Spike Protection: +40, -40 Volts. (40V transorb)
- 3.4 Lightning Protection: All pins
- 3.5 Polarity: Positive or negative ground, polarity protected.

4.0 Additional Specifications:

- 4.1 Warranty: Ten (10) year limited warranty.
- 4.1 Operating Temperature Range: -55°C to +70°C, unit will automatically reduce LED current for self-protection if it overheats (over 90°C case temperature)
- 4.2 Cleaning: Unit may be exposed to spray wash.

AeroLEDs LIMITED WARRANTY AND LIMITATION OF LIABILITY

AeroLEDs warrants that on the Date of Purchase this Product will conform to AeroLEDs' published specifications for the product, which are available from AeroLEDs on request, and AeroLEDs warrants that the product is free from defects in materials and workmanship. This Limited Warranty extends for ten (10) years from the date of purchase. AeroLEDs will, at its option, repair or replace any product found by AeroLEDs to be defective and subject to this Limited Warranty.

This Limited Warranty does not apply to parts or products that are misused; abused; modified; damaged by accident, fire or other hazard; improperly installed or operated; or not maintained in accordance with the maintenance procedures set forth in AeroLEDs' Installation and Operating Instructions.

To obtain warranty service, you must call AeroLEDs Customer Service at 208-867-1319, or FAX your request to 208-246-0552. Customer Service will issue warranty authorization and further instructions.

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