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HIGH-PERFORMANCE LED DESIGNS

Product Datasheet

EVOLUTION SERIES NAV/STROBE ASSEMBLIES

Specifications:

Part Number:	Red: AL-EV14NS-R; Green AL-EV14NS-G
Voltage:	12-14 Volt DC
Current (Nav):	0.62amps (8.68watts)
Current (Strobe):	1.12amps Peak; 0.40 Avg
Dimensions:	3.97"L x 1.81W x 1.60H
Weight:	0.24lbs/each
Certification:	Not approved for installation on certified aircraft

Installation Guide:

Legacy Retrofit: The light assembly base plate adapter layout is designed as a direct replacement for legacy fixtures. For retrofit installations, permanently mount the supplied baseplate to the wingtip with blind rivets or hardware appropriate for the specific application.

New Installations: The baseplate may be used as drill guide template; or reference the hole spacing in the mounting layout diagram (Ensure that the "Y" side is facing forward). Drill the hole for the wire harness such that the size is adequate to pass the connector through.

Wiring:

It is recommended to install a 4-pin disconnect plug (Molex, Duetsche, CPC, etc) to each light assembly to aid in easy removal for inspection.

Power Inputs: Each light assembly incorporates two discrete power inputs (12V to nav circuit – Red wire; 12V to Strobe circuit)

Ground: A single ground wire (black wire) serves the whole light, so it is imperative that it be connected to location that has good continuity to the aircraft battery ground.

Strobe Synchronization: The strobe sync wire (yellow wire) may be left disconnected if you do not require the strobes to flash simultaneously. However, for the strobes on each wing to flash together, the yellow wire on each light assy must be attached together. *Do not attach the yellow wire to power or ground in any situation. If unused, isolate the wire with heat shrink tube.*

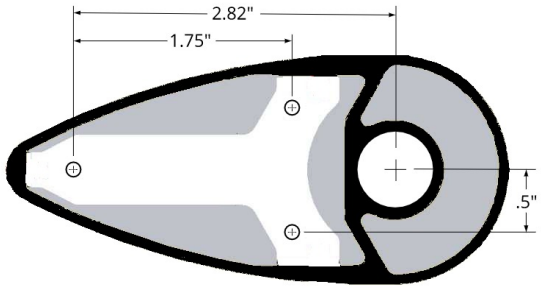
Mounting the light to baseplate:

Connect the pigtail to the aircraft side of the wire harness through the hole cut forward of the Y-bracket. Place the light assy atop the Y-bracket and align the holes. Loosely start all three set screws, being careful not to cross-thread. Once all three screws are started, snug each screw in rotation while lightly pressing the light assy to keep it flush to the baseplate.

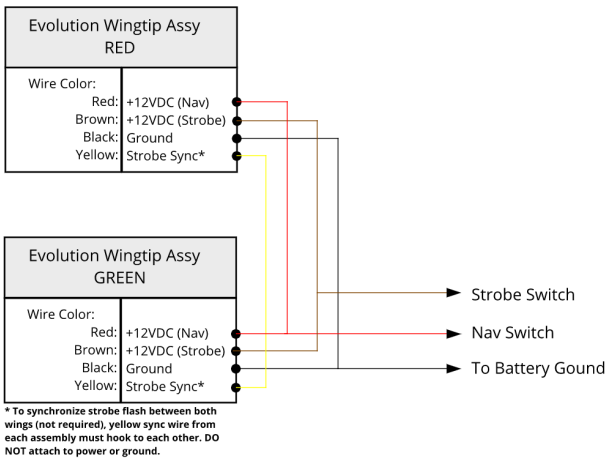
*Once light is installed to baseplate, it is recommended to seal between the base of the light and the wingtip by applying a bead of silicone/RTV around the base of the light to prevent moisture accumulation behind the fixture.

***Before return to service It is imperative to test ALL Comm/Nav/GPS equipment for integrity and/or RF interference with both the Nav and Strobe circuits powered on.**

Mounting Layout:



Wiring Diagram:



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