Item 15045: Tail Strobe

Thank you for purchasing a *Flyleds* combined Tail Strobe/Position light.

- This light is suitable for Experimental category aircraft only.
- This light is suitable for 14 volt systems only. Correct wiring polarity *must* be observed.
- Do not observe the Tail Strobe at close proximity when it is operating. It will hurt!

Specifications

- 1x Cree XHP70 LED, operating at ~90% of rated power.
- Exceeds the minimum light requirements of FAR23.1401
- 120 degree coverage angle, meets "Aviation White" spec.
- ~0.4A in Position mode, ~1.9A when strobing
- Protect the circuit with a 2 or 3 amp fuse or circuit breaker.

Mounting

The Flyleds Tail Strobe is supplied with a laser cut mounting plate, and two metric M3 304 stainless steel screws. This provides a convenient and sturdy method of mounting your tail light to the fiberglass on the tail of your RV.

Drill the mounting screw holes and a 1 inch clearance hole in the appropriate rear-most position on your plane. The mounting plate may then be permanently fixed into position behind the fibreglass using a suitable adhesive.

Power and ground wiring can be directly connected to the screw terminals, observing the correct polarity as marked on the board. Immediate damage to the unit will otherwise result!

The units have been tested in our RV-10 with a single run of unshielded cable bunched in with the existing wiring loom all the way to the tail. No noise was heard in our intercom. If you're still building, we'd recommend using shielded cable just to be sure.

Mode Setting

The factory default setting is Strobe Only mode. In Position Mode, the LED also remains lit at reduced intensity in-between strobe flashes.

- Press **and hold** the MODE button, and turn on power to the light. Release the MODE button.
- This will toggle the Position Mode setting.
- To change mode again, turn off power to the light for 20 seconds, and repeat the step above.

The mode setting is stored in memory, and will remain set indefinitely.
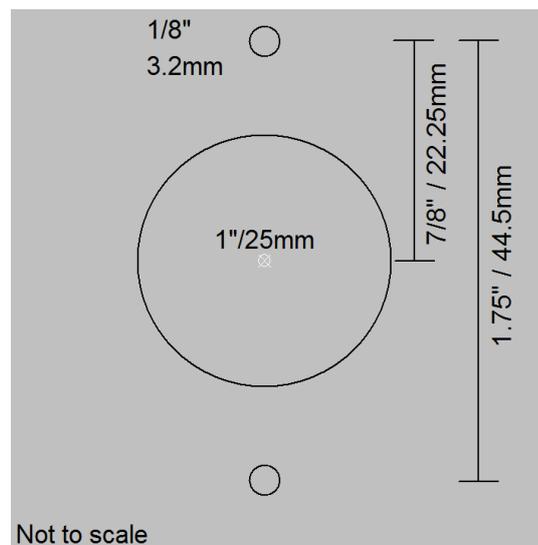
Strobe Pattern setting

The unit comes pre-programmed with eight default strobe patterns. These are illustrated below. It is also customised to your request at the time of order with several strobe patterns in Morse code. This creates a unique and eye catching strobe light for your aircraft!

The factory default setting is Pattern 1.

- While the strobe is operating, press the MODE button for 1 second. The strobe will pause while you hold the button down.
- The strobe increments to the next pattern number, and loops back to Pattern 1.

The chosen flash pattern is stored in memory, and will remain set indefinitely.

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Maintenance

The dome of the light is solid cast epoxy resin, and should easily stand up to most knocks and bumps.

If you feel the need, it can be polished and/or waxed using automotive products and a soft cloth.

In normal use the strobe will get warm to touch. This is normal, and the components are rated accordingly.

About us

Each and every Strobe Light from *Flyleds* is *handmade*, from the circuit board to the resin casting.

There may be some trapped air bubbles in the resin. We call this individuality, not a defect!

Every unit is tested for 24 hours continuous operation before it leaves our hands.

Full product support, should you need it, is available at info@flyleds.com

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New Feature!

As with all great products, they get refined over time!

In order to make strobe pattern changes easier, we have added an extra feature to the strobe. There is now a small magnetically activated reed switch that has been wired in parallel with the onboard mode switch.

Before final mounting of the strobe to your plane, glue, tape or otherwise secure the reed switch, located in the black heatshrink tube, to the inside of the fibreglass of the tail.
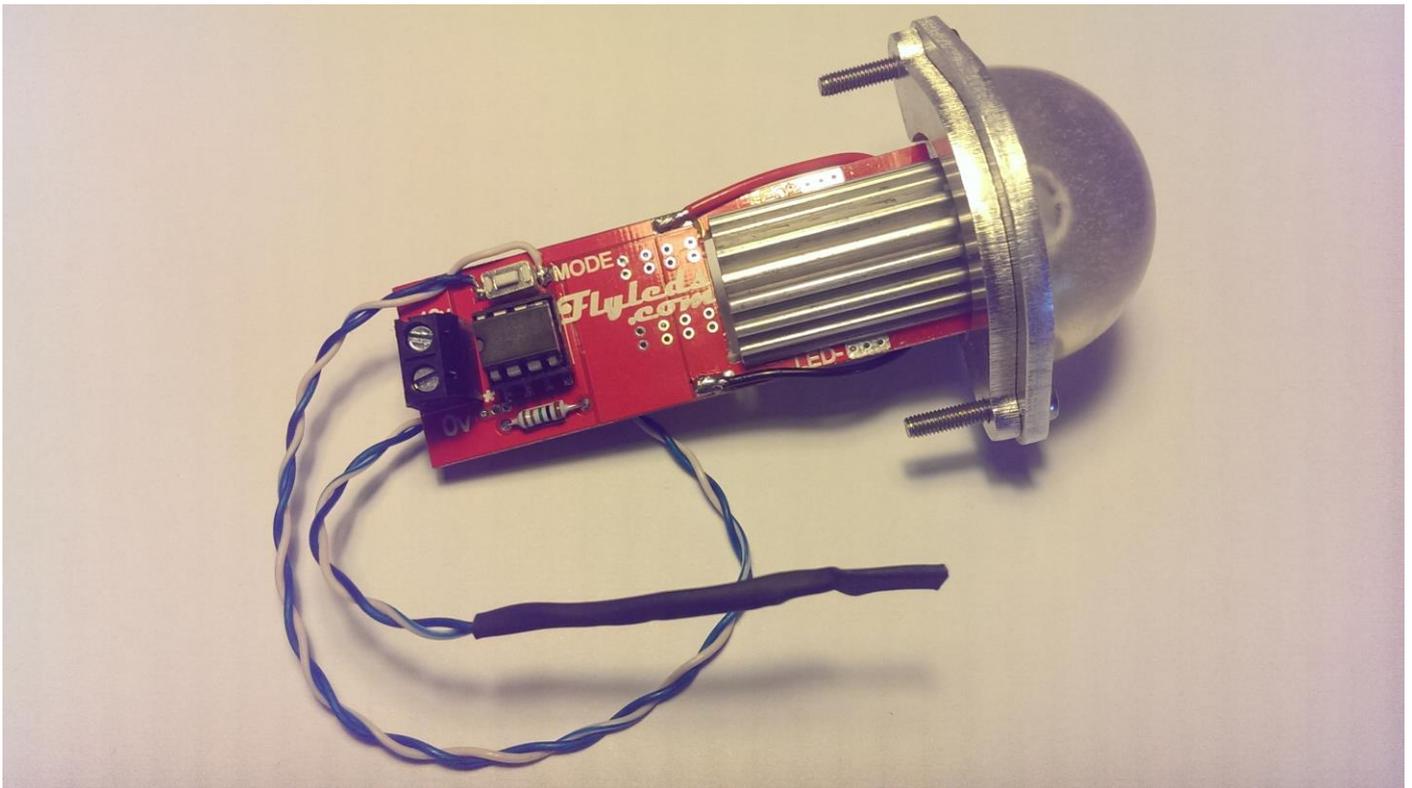
When the strobe is then installed, you may change the strobe pattern by holding a magnet near to where the switch is located. You will observe that the strobe stops. Move the magnet away, and it will select the next pattern and begin flashing that pattern. Easy!

If this feature is not required, simply cut the two wires close to the circuit board to remove the reed switch.