

The Ray Allen Company Inc.

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POS SERIES POSITION SENSOR AND RP3 LED TYPE POSITION INDICATOR



INSTALLATION INSTRUCTIONS FOR THE POSITION SENSOR

The Ray Allen POS position sensor provides a signal for a RP3 indicator or a glass panel display by means of a sliding arm. The sliding arm is connected to a 0-5K ohm pot. Install the position sensor where the arm can travel just under its full length.

Do not use Ray Allen RC8 clevises to connect to the POS sensor. Instead, try Radio Control car or airplane hardware available at hobby stores. A "Z" bend in 1/8 inch piano works well too.

CAUTION!! Be sure that your installation is not forcing the sensor arm to overtravel.

INSTALLATION INSTRUCTIONS FOR THE RP3 LED INDICATOR

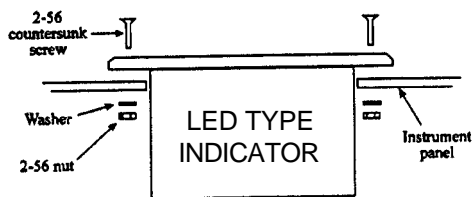
The RP3 LED type position indicator uses ten LED lights to show you the position of the servo output shaft. Although we have used some of the brightest LED lights available, direct sunlight will still affect your ability to see the active light. Because of this, the position indicator should be mounted somewhere in the shade on your panel, preferably under the sun shield.

For night flight, the bright LEDs can be dimmed. This dimming function is activated when the white wire is connected to 12V+. Note that this dimming function is either ON or OFF, it is not designed to be connected to a panel light rheostat. The dimming function is OPTIONAL and does not have to be used (just cut off the white wire).

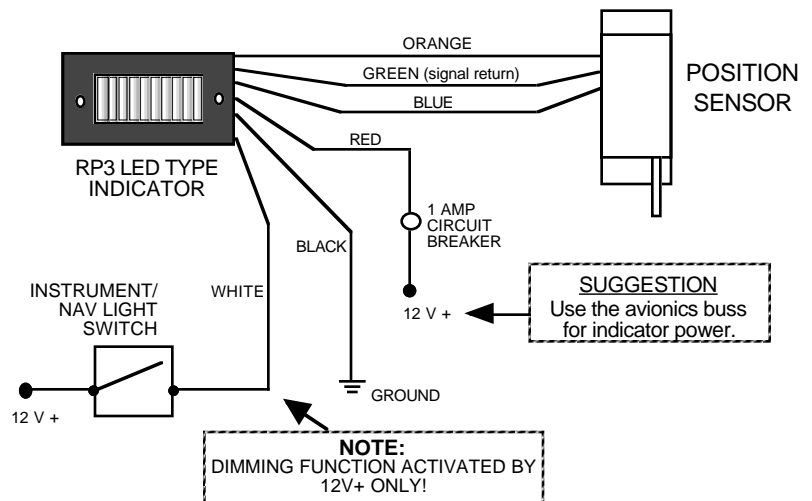
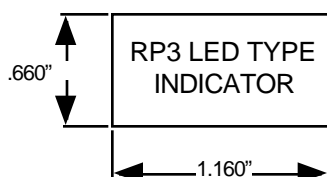
CAUTION!! DO NOT use the LED type indicator with an alternator, rectifier or a battery charger without a battery in line. DO NOT connect the orange wire to 12V+. DO NOT install any other indicator in line with the RP3.

Wiring connectors are not included. A separate 1/2 amp fuse or circuit breaker is recommended. The self-adhesive label (if used) should not be applied to the indicator face until you are sure the indicator will not be removed again. It is possible to reverse the orange and blue wires to reverse the LED's travel.

Try to keep all radio com antennae co-ax cables a minimum of 3" away from the RP3 wire harness to reduce LED flicker during radio transmission. We further suggest wiring it on the avionics buss side of your aircraft's electrical system to isolate the indicator from engine start/shut down voltage spikes.



PANEL CUT-OUT (NOTE: DRAWING NOT TO SCALE)



Warning: Installation and use of Ray Allen Company products is the responsibility of the aircraft designer and builder. Use of Ray Allen products in any application which will exceed their capability can cause failure leading to injury or death.