

Model 90088 Series LED Anti-collision Light

The Model 90088 Series is a self contained LED anti-collision beacon. It's solid-state circuitry and LED light source obsolete the "old style" mechanical oscillating beacons as well as the Whelen 90044 Series quartz halogen flashing beacons. Benefits include no moving parts, no EMI/RFI, no inrush current spikes and crisp on off cycles. There are several models available to provide compatibility with existing mounting patterns and profiles, thus eliminating the need to alter the aircraft.

Specifications: ■ **Power Consumption:** 0.45 Amps @ 28 VDC ■ **LED Color:** Aviation RED, ■ **Weight:** 1.8 lbs (unless otherwise noted). ■ **Exposed Height:** 2.70", ■ **Lens Color:** Clear glass ■ **Replaces:** Whelen 90044 Series, and Grimes - G9950-(), 40-0100-(), 30-2140-(), 40-0117-(), 40-0127-(), 30-2647-()

To determine the model required for replacement, the following information is needed: upper or lower mounting, number of mounting holes (5 or 8), weight & position installed. Beacons installed on the rudder, example: Citations and Barons, require a 2.25lb. assembly. Top replacement on Gulfstream II & III require a 9008812 in conjunction with the optional 16 hole mounting plate, p/n 06-170618-00.

Model #	Part #	Description	Approvals
9008811	01-0790088-11	Lower, 5 hole, Standard assembly, cable pigtail	FAA/TSO-C96a Class III
9008812	01-0790088-12	Upper, 5 hole, Standard assembly, cable pigtail	FAA/TSO-C96a Class III
9008813	01-0790088-13	Upper, 5 hole, 2.25lbs. (Rudder Mount Citations)	FAA/TSO-C96a Class III
9008814	01-0790088-14	Upper, 5 hole, 2.25lbs. (Cable pigtail) Beech Barons	FAA/TSO-C96a Class III
9008815	01-0790088-15	Lower, 5 hole, (MS27508E10A-5P connector)	FAA/TSO-C96a Class III
9008816	01-0790088-16	Upper, 5 hole, (MS27508E10A-5P connector)	FAA/TSO-C96a Class III
9008817	01-0790088-17	Lower, 5 hole, 2 drain holes (Hawker 800)	FAA/TSO-C96a Class III
9008818	01-0790088-18	Upper, 8 hole, 1.9 lbs, Cable pigtail	FAA/TSO-C96a Class III
9008819	01-0790088-19	Lower, 8 hole, 1.9 lbs, Cable pigtail	FAA/TSO-C96a Class III

Model 70905 Series LED Beacons (for Rotorcraft)

Model 70905 Series are self-contained anti-collision lights for rotorcraft. An external power unit is not required. All units meet the minimum requirements stated in FAR Parts 27 & 29 for anti-collision light systems used on rotorcraft, Ref: Class I (150 effective candela) of SAE AS8017a minimum performance standards. (Available in 28 VDC only).

MODEL 7090501

Model 7090501 is designed to replace existing beacons with the 5 hole mounting pattern on a 4.656 dia. bolt circle. (Ref. Whelen 70285 series). It incorporates an MS3102R10SL-3P connector for input.

Specifications: ■ **Power Consumption:** 0.45 amps @ 28 VDC ■ **LED Color:** Aviation Red ■ **Weight:** 1.4 lbs. ■ **Exposed Height:** 4.04" ■ **Exposed Diameter:** 3.66"

Model #	Part #	Description	Approvals
7090501	01-0770905-01	Red, 5 hole mount	FAA/TSO-C96a

MODEL 7090502

Model 7090502 is designed to replace existing remote mounted strobe lights (Ref. Whelen A470A series). A power supply is no longer required.

Specifications: ■ **Power Consumption:** 0.45 amps @ 28 VDC ■ **LED Color:** Aviation Red ■ **Weight:** 1.2 lbs. ■ **Exposed Height:** 4.14" ■ **Exposed Diameter:** 3.66"

Model #	Part #	Description	Approvals
7090502	01-0770905-02	Red LED beacon	FAA/TSO-C96a

MODEL 7090503

Model 7090503 is designed to replace existing beacons with the 3-3/4" dia. mounting pattern, (Ref. Whelen HRCFA series, 90081 Series, and the old style rotating beacons). It has the same mounting hole pattern. No modification to the aircraft is required.

Specifications: ■ **Power Consumption:** 0.45 amps @ 28 VDC ■ **LED Color:** Aviation Red ■ **Weight:** 1.1 lbs. ■ **Exposed Height:** 3.1" ■ **Exposed Diameter:** 2.8"

Model #	Part #	Description	Approvals
7090503	01-0770905-03	Red, 3-3/4 dia. mount	FAA/TSO-C96a

Model 7090505

Model 7090505 is designed to replace existing beacons on the Eurocopter EC120, 130, & 135, or any other rotorcraft that uses the 4 hole mounting as shown on the mounting plate. It incorporates an MIL-C-38999 Series III, 20FA98PN connector for input.

Specifications: ■ **Power Consumption:** 0.45 amps @ 28 VDC ■ **LED Color:** Aviation Red ■ **Weight:** 1.4 lbs. ■ **Exposed Height:** 4.04" ■ **Exposed Diameter:** 3.66"

Model #	Part #	Description	Approvals
7090505	01-0770905-05	Red	FAA/TSO-C96a Class I





Model 70963 Series LED Forward Position Lights

Model 70963 series is designed to replace existing incandescent & halogen position lights used on most business and commuter jets. The benefits of LED technology will drastically reduce operating costs and improve reliability over the existing lighting. The 70963 series are warranted to comply with FAA color & light output regulations for 5 years or 10,000 hours.

Specifications: ■ Power Consumption: 0.3 amps @ 28 VDC ■ Input Voltage: 22-30 VDC
 ■ LED Color: Aviation Red, Aviation Green ■ Weight: 0.25 lbs. ■ Exposed Height: 1.98"
 ■ Diameter: 2.10"

Model #	Part #	Description	Approvals
7096303	01-0770963-03	Green position light	FAA/TSO-C30c Type II
7096304	01-0770963-04	Red position light	FAA/TSO-C30c Type I



Model 70875 Series LED Forward Position Lights

Model 70875 Series are fully FAA TSO'd forward position lights. The solid-state LED light source has shown conservative lab life results greater than 20,000 hours.

Specifications: ■ Power Consumption: 0.35 amps @ 28 VDC ■ LED Color: Aviation Red; Aviation Green ■ Weight: 0.26 lbs. ■ Exposed Height: 1.39" ■ Length: 3.92"

Model #	Part #	Description	Approvals
7087501	01-0770875-01	Green position light, 28 VDC	FAA/TSO-C30c Type II
7087502	01-0770875-02	Red position light, 28 VDC	FAA/TSO-C30c Type I



Model 70900 Series LED Beacons (for fixed wing aircraft)

Model 70900 Series are FAA TSO'd self-contained anti-collision lights for fixed wing aircraft. An external power unit is not required. Conservative lab life results greater than 20,000 hours. No EMI or RFI produced. All units meet the minimum requirements stated in FAR Parts 23 & 25 for anti-collision light systems used on fixed wing aircraft, Ref; Class III (100 effective candela) of SAE AS8017a minimum performance standards.

MODELS 7090002 & 7090003 are designed to replace existing remote mounted strobe lights. A strobe power supply is no longer required.

Specifications: ■ Power Consumption: P/N 01-0770900-02: 0.85 amps @ 14 VDC
 ■ Power Consumption: P/N 01-0770900-03: 0.425 amps @ 28 VDC ■ LED Color: Aviation Red
 ■ Weight: 1.1 lbs. ■ Exposed Height: 4.14" ■ Exposed Diameter: 3.66"

Model #	Part #	Description	Approvals
7090002	01-0770900-02	Red LED beacon, 14 VDC	FAA/TSO-C96a Class III
7090003	01-0770900-03	Red LED beacon, 28 VDC	FAA/TSO-C96a Class III



MODELS 7090004 & 7090005 are designed to replace existing light assemblies with the 3-3/4" dia. mounting pattern. (Ref. Whelen HRCFA series, 90081 Series, and "old style" rotating beacons). Same mounting hole pattern, no modification to the aircraft is required.

Specifications: ■ Power Consumption: P/N 01-0770900-04: 0.85 amps @ 14 VDC
 ■ Power Consumption: P/N 01-0770900-05: 0.425 amps @ 28 VDC ■ LED Color: Aviation Red
 ■ Weight: 1.1 lbs. ■ Exposed Height: 3.1" ■ Exposed Diameter: 2.8"

Model #	Part #	Description	Approvals
7090004	01-0770900-04	Red, 3-3/4 dia. mount, 14 VDC	FAA/TSO-C96a Class III
7090005	01-0770900-05	Red, 3-3/4 dia. mount, 28 VDC	FAA/TSO-C96a Class III



Model 71055 Series LED Beacon

Model 71055 Series beacons are FAA TSO'd self contained LED anti-collision lights. They are designed to replace existing quartz halogen flasher beacons installed as original equipment on single engine Cessna's from 1967 and later (contact factory for details). They can also replace remote mounted strobe lights (ref. Whelen A470 series) allowing for removal of the strobe power supply. Internal mounting plate provided with choice of mounting holes to retrofit most existing mounting patterns.

Specifications: ■ Power Consumption: 01-0771055-00 - 1.2 Amps Avg. / 01-0771055-01 - 0.6 Amps Avg. ■ LED Color: Aviation RED ■ Lens: Clear Polycarbonate ■ Weight: 0.52 lbs.
 ■ Exposed Height: 3.09" ■ Exposed Diameter: 2.60"

Model #	Part #	Description	Approvals
7105500	01-0771055-00	LED Beacon 14 VDC, Red	FAA/TSO-C96a Class III
7105501	01-0771055-01	LED Beacon 28 VDC, Red	FAA/TSO-C96a Class III



Replaces Quartz Halogen Flasher



Model 70946 Series LED Position/Strobe Light

Model 70946 Series are combination LED forward position/Strobe lights designed to replace the existing combination nav/strobe lights typically seen mounted on most general aviation, and helicopter applications (ref Whelen A650PG/PR series). They have all the advantages associated with using LED's as a light source, improved reliability, reduced operating costs, while providing the strobe anti-collision light all in the same package (28VDC only).

Specifications: ■ Position Light Power consumption: 0.35 amps @ 28 VDC ■ LED Color: Aviation Red or Green ■ Weight: 0.7 lbs. ■ Exposed Height: 2.85" ■ Exposed Length: 4.25"
 ■ Mounting Hole Pattern: 1.75"

Model #	Part #	Description	Approvals
7094603	01-0770946-01	Position Green	FAA/TSO-C30c Type II
7094604	01-0770946-02	Position Red	FAA/TSO-C30c Type I

Model 71015 Series LED Forward Position Lights

Model 71015 Series are FAA TSO'd forward position lights. They are compatible with the Whelen W1250 position light mounting as well as any other make that uses the same mounting pattern.

Specifications: ■ Power Consumption: 0.3 amps @ 28 VDC ■ LED Color: Aviation Red; and Aviation Green ■ Weight: 0.2 lbs. ■ Exposed Height: 1.33"; Length - 2.41"

Model #	Part #	Description	Approvals
7101501	01-0771015-01	Green Position Light 28 VDC	FAA/TSO-C30c Type II
7101502	01-0771015-02	Red Position Light 28 VDC	FAA/TSO-C30c Type I

Model 71011 Series LED Tail Position Lights

Model 71011 Series are LED tail position lights designed to replace the existing "old style" tail lights typically seen mounted on most general aviation, corporate, and helicopter applications. They have all the advantages associated with using LED's as a light source, improved reliability, and reduced operating costs.

Specifications: ■ Power Consumption: 0.3 amps @ 28 VDC ■ LED Color: Aviation White ■ Weight: 0.2 lbs. ■ Exposed Height: 1.36"; Mounting Hole Pattern - 1.75"

Model #	Part #	Description	Approvals
7101102	01-0771011-02	Vertical Mount 28 VDC	FAA/TSO-C30c Type III
7101103	01-0771011-03	Horizontal Mount 28 VDC	FAA/TSO-C30c Type III

Model 71092 LED Recognition Light

Model 71092 Series LED recognition light is designed to provide supplemental identification lighting for a wide variety of aircraft platforms. Provides all of the advantages of LED's as a light source, no EMI/RFI, low current draw, low heat, long life. Perfect for vibration prone areas. Approx 10 degree total beam spread. Unit can be operated from 12 to 28 volts DC without conversion.

Specifications: ■ Power Consumption: 0.5 Amps ■ Lens: Clear polycarbonate ■ LED Color: Aviation White ■ Weight: 0.43 lbs. ■ Overall Width: 2.80" ■ Overall Depth: 3.19" ■ Mounting Pattern: 1.743" wide x 1.45" high

Model #	Part #	Description	Approvals
7109201	01-0771092-01	LED Recognition Light	—

Model 7111500 LED Recognition Light Flasher Control

The Model 7111500 is designed to flash LED recognition lights. There are 3 switching input modes to control illumination options, Steady On, Alternating Flash, & Synchronized Flash. This unit can control two LED recognition lights, and can operate from 14 to 28 volts DC without conversion.

Specifications: ■ Flashrate: 45 Flashes Per Minute ■ On Time: 350 ms ■ Length: 4.5" ■ Width: 1.9" ■ Height: 1.0" ■ Weight: 0.3 Lbs.

Model#	Part #	Description	Approvals
7111500	01-0771115-00	LED Recognition Light Flasher Control	—



NOTE: All non-FAA approved parts in this catalog are signified by a (—) in the approval column. Parts without FAA approval may still be purchased, however, installation of these parts on U. S. Type Certificated products may require additional FAA approvals.