

POINT FLASHING BEACON

PFB LED

FAA L-864

ICAO TYPES B & C

Compliances: ETL Verified FAA L-864 to FAA Advisory Circular 150/5345-43J
 ETL Tested to IP66
 Compliance to ICAO Annex 14 Medium Intensity Types B & C
 Compliance to Transport Canada CL864
 Registered ISO 9001:2015

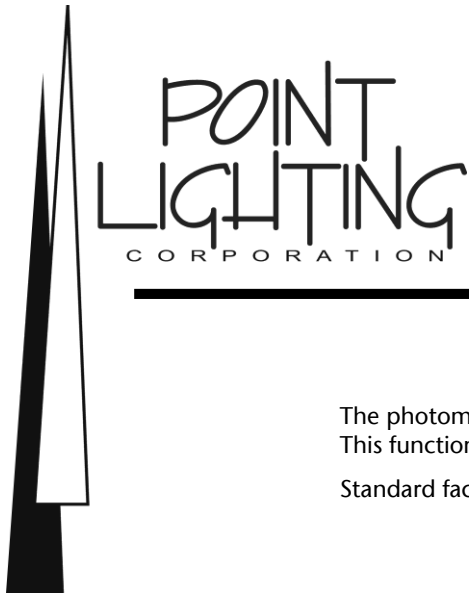
The PFB LED red medium intensity flashing beacons are for use on aviation obstructions.

- Integral flasher module.
- The hardware is 316 (A4) stainless steel.
- Moisture & humidity venting.
- Flashing synchronized by a POC system controller or by the standard internal GPS module.
- Beacon cable conductors include AC powered alarm line & data lines (when used).
- Six (6) years limited warranty subject to Point Lighting "Terms & Conditions of Sale".
- Integral FAA photoelectric control.
- The LED's are rated for 100,000 hours.
- IP66 tested and listed.

Point Type	Color	Voltage	Options
PFB-37003	R: Red	1: AC 96 to 305V, 50/60 Hz 5: DC 43.2 to 52.8V	See page 2

PFB-37003-R-1
 MEDIUM INTENSITY RED BEACON





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BEACON SELECTION TABLE

The photometric standard required is factory programmed.
 This function may also be set in the field using our handheld programmer.

Standard factory programming meets:

- FAA L-864 red flashing medium intensity beacon
- ICAO Type B red flashing medium intensity beacon
- Transport Canada CL864 red flashing beacon

Optional factory programming used for:

- ICAO Type C red steady medium intensity beacon

STANDARD FEATURES

---	NVG Compatibility for night vision
---	Flashing synchronized by a POC system controller or by GPS Note: Standalone beacons automatically flash in sync by GPS Note: Loss of data signal from the POC, beacons automatically sync by GPS
---	Integral FAA photocontrol Note: Active for each standalone beacon.
---	Beacon automatically syncs to POC controller via data cable or to other beacons via internal GPS.
---	Cable loop 3m is included. Includes data lines for use with POC controller and voltage powered alarm line as alternative. Note: The cable loop length is fixed at 3 meters.

OPTIONS

C	Factory programmed for ICAO Type C red steady medium intensity
SOL	Solar powered standalone beacon Note: Multiple beacons will flash in sync via GPS.
BBS	Battery Backup System: Contact Point Lighting for specific configurations. Use this option for a single PFB beacon.



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TYPICAL BEACON PROGRAMMING

The information below is.....information. All beacons ordered will be factory programmed to accommodate the specific project. For 90% of orders, the installer only has to make the wire connections in the field. Distributors and contractors who purchase quantities for stock will be able to program each beacon as required by their customers. Customers who buy spare beacons for their project will be able to easily change the program or beacon number if necessary. The PFB-37003 is truly universal.

The PFB-37003 may be deployed as standalone, in a system with flashing sync'd by GPS or in a system operated by a POC system controller. The program set may be changed in the field to change the photometric standard or to change whether the beacon operates standalone or as part of a system of beacons.

Note: In all cases where the beacon is operating from a POC system controller or using a remote PPC photocontrol, failure of the signal from the POC or the PPC will cause the corresponding internal device to activate automatically and generate an alarm while maintaining the beacon's operation.

Internal Global Positioning System (GPS)

Internal FAA Photoelectric Control (PEC)

Standalone (Flashing):	Each beacon operates and flashes independently GPS: Enabled PEC: Enabled
Standalone (Steady):	Each beacon operates independently as steady-burning Type C GPS: Disabled PEC: Enabled
Simple System (Flashing):	Uses a POC-60301 system controller. Data cable is not required. Beacons sync via GPS. Each beacon has an alarm wire that sends the AC alarm signal back to the POC. The POC switches the system power. GPS: Enabled PEC: Disabled *
Full System (Flashing):	Uses a POC-68003 system controller. Data cable is required. Beacons are sync'd and multiple alarm functions are monitored via the data cable which is one run from the POC and looped to each beacon. Each beacon has a data address. The POC switches the system power. GPS: Disabled ** PEC: Disabled *

* If the system PPC fails or the signal is lost, the onboard PEC automatically activates.

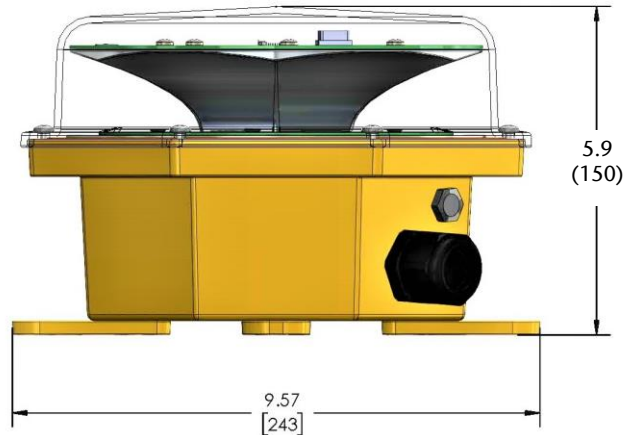
** If the data signal is lost, the onboard GPS automatically activates and the beacons continue to flash in sync.

SERVICE

The beacon may be serviced. However, do not attempt to open the beacon before contacting Point Lighting Corporation for instructions. Do not attempt any testing or procedure not stated in the manual.



Dimensions: Inches
(mm)

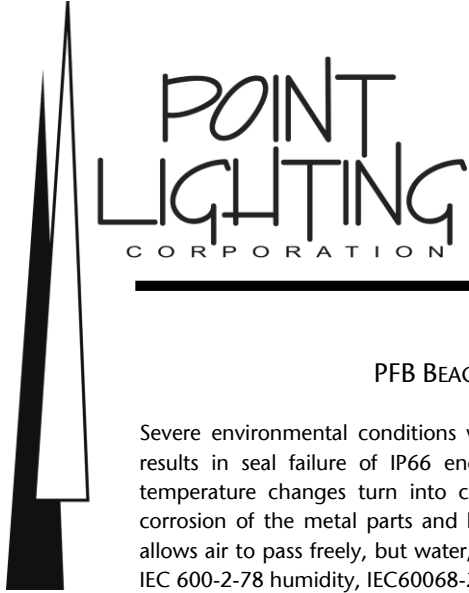


FAA RED BEACON

Intensity:	2,000 candelas red night As defined by FAA L-864 Advisory Circular 150/5345-43J
Wattage:	43.4 watts AC peak 7.0 watts AC average F4, T4, B 28.5 watts AC average C 40.4 watts 48V DC peak 5.4 watts 48V DC average
Volt-Amps:	72.7 VA AC peak 17.4 VA AC average F4, T4, B 33.5 VA AC average C
Input Range:	See voltage ranges page 1
Temp Rating:	± 55° C per FAA certification test
LED Life (hours):	100,000
Cable Loop:	Diameter 0.54-inch (13.7mm)
Weight:	6.5 lbs 2.9 kg
Mounting:	4 Holes on 8.3-inch circle for ¼-20 (M6) screws

DATA CABLE

PFB beacons connected to a POC system controller may require a data cable. This cable is one run from the POC controller to the first beacon location and then to each beacon in turn ("daisy-chain"). This is normally the most direct method, but the cable is a data bus and may be routed as required with the beacons connected at any point. Each beacon is assigned a location address number and the beacons must be connected to the data cable run in that numerical order. This is how the POC identifies each specific beacon and the system will not operate properly unless the beacons are connected in the specified order. Certain other configurations do not require a data cable.



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PFB BEACON VENTED FOR PREVENTION OF MOISTURE INGRESS

Severe environmental conditions with varying temperatures and humidity cause an air pressure differential that results in seal failure of IP66 enclosures. Certified fixtures and enclosures begin to leak moist air which the temperature changes turn into condensation. This water can cause failure of the electronic components and corrosion of the metal parts and housing. Point Lighting Corporation uses a very fine pore membrane vent that allows air to pass freely, but water, dust and dirt are prevented from entering. The vent is certified to IP66 & IP67, IEC 600-2-78 humidity, IEC60068-2-11 salt fog, GR-3108-CORE corrosive gases and other IEC standards.

Beacon PFB-37003
with PL10961-M12-HF Vent
Installed above the cable entry gland



PFB BEACON FREEZE & HEAT CYCLING TEST PROGRAM TO CONFIRM PREVENTION OF MOISTURE INGRESS CALIBRATED ENVIRONMENTAL CHAMBER

Turn on the chamber, humidity control, dry air purge and ramp to 75°F (24°C) and 70% humidity for baseline readings.

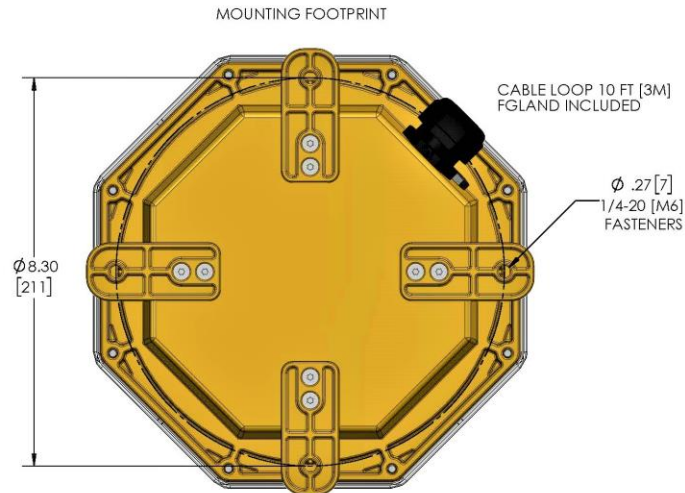
Ramp to -67°F (-55°C) and 50% humidity at the rate of 2.5°F/min (1h 15m).

Hold at -67°F (-55°C) for 1 hour.

Ramp to 130°F (+55°C) and 95% humidity at a rate of 2.5°F/min (1h 15m).

Hold at 130°F (+55°C) and 95% humidity for 1 hour.

Repeat steps 2 - 5 Twenty (20) times



SPARE PARTS

We recommend purchasing a spare PFB beacon. A spare PFB beacon may require programming to match the beacon to be replaced. Therefore, the handheld Field Programmer device should also be purchased (one per site).

- PL11248 Handheld programmer for use in the field to set the photometric standard and to assign the beacon's system address when required.
- PL11525-S Lens, Spare includes spare O-ring that seals the lens to base
- PL11555-1 Electronic Subassembly AC complete internal assembly: optics and electronics
- PL11555-5 Electronic Subassembly 48V DC complete internal assembly: optics and electronics

SYSTEM CONTROLLER WITH TOUCHSCREEN POC-68003



Handheld Programmer PL11248

Required for changing the photometric standard and/or controller compatibility. Also, when used with a POC-6800x series controller, for assigning in the field each beacon's data cable address for replacements and for relocated beacons.



FAA PHOTOELECTRIC CONTROLLER PPC-40700-1-34T

Note: Used when a POC system controller is installed