POINT FLASHING BEACON
PFB LED
FAA L-864 & L-865
ICAO TYPES A, B & C

Compliances: ETL Verified FAA L-864 & L-865 to FAA Advisory Circular 150/5345-43J
Compliance to FAA Engineering Briefs 67D & 98
UL Tested & Verified to IP66
Verified Compliant to ICAO Annex 14 Medium Intensity Types A, B & C
Verified Compliant to Transport Canada CL864 & CL865
Registered ISO 9001:2015

PFB LED red, white & dual red-white medium intensity flashing beacons for use on aviation obstructions. All in one design with all power supply and controls integral in the beacon flashhead.

- ☑ Integral GPS module for flash synchronization.
- ☑ Integral flasher module.
- ☑ The hardware is 316 (A4) stainless steel.
- ☑ Moisture & humidity venting.
- ☑ Integral FAA photoelectric control.
- ☑ Very low weight for tower climbers.
- ☑ The LED's are rated for 100,000 hours.
- ☑ IP66 tested and listed.
- ☑ 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".

Point Type	—	Color	—	Voltage	—	Options
PFB-37004		R: Red W: White RW: Dual Red-White		1: AC 96 to 264V, 50/60 Hz		See page 2 See Beacon Selection Table

PFB-37004-RW-1
MEDIUM INTENSITY DUAL RED-WHITE BEACON

MADE IN USA

ISOQAR QUALITY ASSURED ISO 9001 10604

VOSB

Intertek

OL217 April, 2025

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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: Default is enabled.
---	Beacon automatically syncs to other beacons via internal GPS Note: Default is enabled.
---	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	ICAO Type C steady-burning red Note: May be used for red or dual beacon.
-UPS	Uninterruptible Power Supply: see page 4.
-Px	Factory Programming: see below. Default: GPS & PEC both enabled.

Note: For a red only flashing beacon FAA L-864, CL864 or ICAO Type B, we suggest using PFB-37003.
See catalog file OL215PFBv3.

TYPICAL BEACON PROGRAMMING

All beacons ordered will be factory programmed to accommodate the specific project. See the programming settings below which are set at time of production. The default programming has the GPS and PEC enabled. We will assign option -P3 or -P4, when required, at time of quotation or at time of order. The PFB-37004 may be deployed as standalone, in a system with flashing sync'd by GPS or in a system operated by a POC system controller.

Internal Global Positioning System (GPS) Internal FAA Photoelectric Control (PEC)
System Controller (POC) External FAA Photoelectric Control (PPC)

Standard (Flashing): Each standalone beacon operates independently and flashes in sync.
Default Programming See file OL308ADU for a passive PL40195 Alarm Display Unit (ADU).
The beacon may be **red** only, **white** only or red-white **dual***.
GPS: Enabled
PEC: Enabled

* Switching modes (color) will result in mismatch for a short time, therefore it is best to deploy multiple dual beacons on one structure as a full system with data cable and POC system controller. Required in North America.

Simple System (Flashing): Multiple beacons on one circuit switched by a PPC-40700 photocontrol.
Option -P3 Or the PPC may switch a POC-60301 system controller. Data cable is not required.
Beacons sync via GPS. Each beacon has an alarm wire that sends the AC signal return to the POC, ADU or other remote alarm relay. Only applicable to a **red** beacon*.
GPS: Enabled * Not dual or white
PEC: Disabled

Full System (Flashing): Must use a POC-68503 or POC-69001 controller switched by a PPC-40702.
Option -P4 Beacons are sync'd and multiple alarm functions are monitored via the required data cable which is one run from the POC and looped to each beacon.
Each beacon has a data address. The POC with PPC switches the system power.
The beacons may be **red**, **white** or red-white **dual** and with POL side lights.
GPS: Disabled
PEC: Disabled

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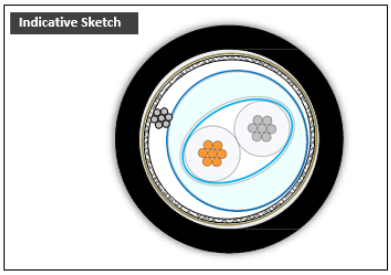
DATA CABLE PL10836 OR POWER & DATA CABLE PL11665-12

PFB beacons connected to a POC system controller usually require a PL10836 PointUSA branded data cable. This cable is one run from the POC controller to the first beacon junction box and then to each beacon junction box in turn ("daisy-chain"). Each beacon is assigned a location address number and the beacons must be connected to the data cable run in that numerical order. We will include a PL10266 Terminating Resistor for the last beacon junction box. 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.

Instead of our data cable with separate installer supplied power cables, we may quote our PL11665-12 PointUSA branded combination power & data cable which will greatly simplify the riser wiring.



c UL us
Homologation UL AWM Style: 2661

CE Accordance to Directives:
2014/35/UE; 2011/65/CE; 2015/863/UE

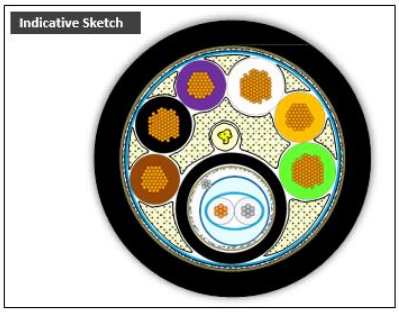
UK CA Accordance to Directives:
Electrical Equipment (Safety) Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

RoHS

MADE IN USA

DATA CABLE PL10836

POWER & DATA CABLE PL11665-12



c UL us
Homologation UL AWM Style: 20626

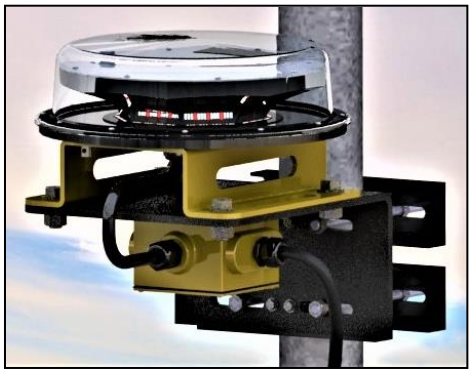
CE Accordance to Directives:
2014/35/UE; 2011/65/CE; 2015/863/UE

UK CA Accordance to Directives:
Electrical Equipment (Safety) Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

RoHS

PFB-37004 BEACON
WITH PL11215-V4 WALL BRACKET
AND PL11545-34 JUNCTION BOX
INSTALLED TO THE BRACKET

PFB-37004 BEACON
WITH PL11215-V4-TPM BRACKET
AND PL11545-34 JUNCTION BOX
INSTALLED TO THE BRACKET



Uninterruptible Power Supply (UPS)

Option -UPS PL11609-1 UPS Unit

Add option -UPS for a standalone beacon or purchase PL11609-1 to power multiple beacons and/or POL low intensity obstruction lights for your building or tower.

IF PROGRAMMED FOR RED (NIGHT ONLY) OPERATION:

RUN-TIME IN NUMBER OF NIGHTS (12 HOURS)

RED	0 POL	1 POL	2 POL	3 POL	4 POL	5 POL	6 POL
0 PFB		9.4	5.4	3.8	2.9	2.3	1.9
1 PFB	5.8	3.9	2.9	2.3	1.9	1.6	1.4
2 PFB	3.0	2.4	1.9	1.6	1.4	1.2	1.1
3 PFB	2.0	1.7	1.4	1.3	1.1	1.0	0.9
4 PFB	1.5	1.3	1.2	1.0	0.9	0.9	0.8

IF PROGRAMMED FOR WHITE OPERATION OR DUAL WHITE-RED OPERATION:

NOTE! USE ONLY ONE (1) WHITE OR DUAL BEACON POWERED BY ONE (1) UPS

If the power failure occurs at the start of night mode (red), the beacon will operate all night.

If the power failure occurs at the start of day mode (white), the beacon will operate twelve (12) hours.

If the power failure occurs midway into night mode or day mode, the beacon will operate longer than twelve (12) hours and well into the following mode.

Notes on run-times and battery capacity:

FAA photocontrol is required; already onboard for one PFB or add PPC-40700-1-34T for multiple red lights.
Run-times are based on a 77-deg F (25-deg C) ambient temperature.
Battery capacity will be between 65-85% at 0-deg C (32-deg F)
Battery capacity will be between 25-45% at -20-deg C (-4-deg F)
"POL" means POL-21006-1F-R number of operating heads. POL-21005-1B-R may also be used.
"PFB" means PFB-37004-R-1 flashing red beacon.

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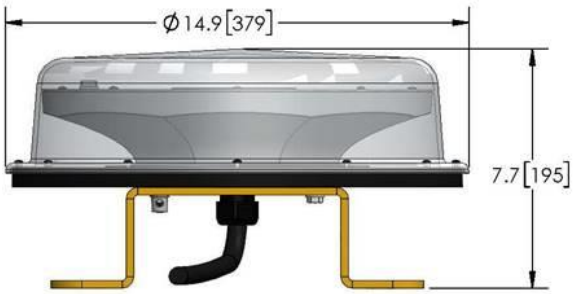
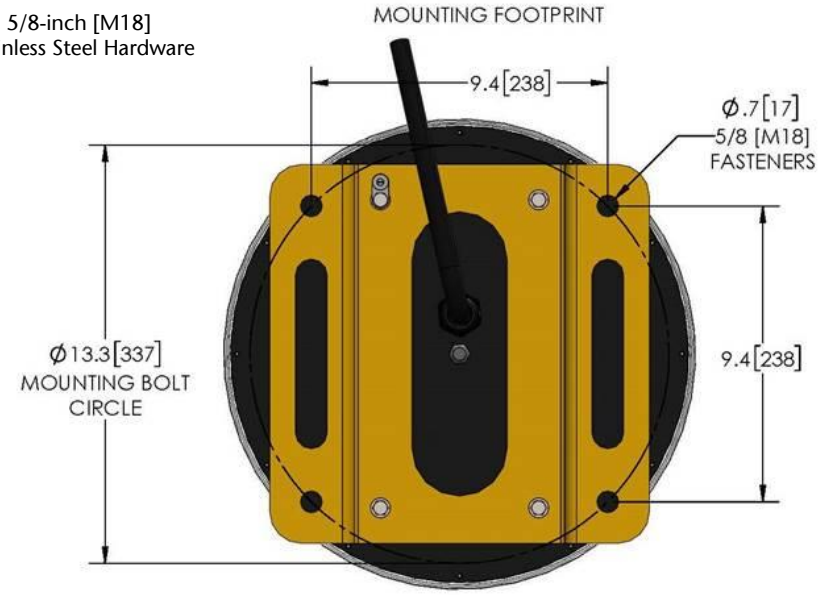


Dimensions: Inches [mm]

Use 5/8-inch [M18]
Stainless Steel Hardware



Weight: 22 lbs 10.0 kg

Power Measurements

White Day Mode

Voltage	Peak W	Average W	Peak VA	Average VA
120v AC	186 W	29.3 W	280 VA	31.4 VA
240v AC	186 W	27.2 W	346 VA	33.7 VA

Red Night Mode

120v AC	34 W	4.0 W	50 VA	5.2 VA
240v AC	35 W	3.9 W	75 VA	9.2 VA