The PFB LED red medium intensity flashing beacon is specified for use on aviation obstructions. All castings are aluminum, all hardware is stainless steel and the lens is glass. There is no plastic. All exterior metal beacon parts are powdercoat painted aviation yellow for corrosion resistance that meets the US Military Standard Salt Fog Test conducted per MIL-STD-810F, Method 509.4, Procedure I.

### Features

- Flasher failure alarm; beacon remains ON
- LED array failure alarm
- Over voltage & over current protection
- Short circuit & open circuit protection
- Metal oxide varistor surge protection
- No external plastic parts
- Modular components for servicing
- Replaceable LED array sections (5)

### Specifications

**Intensity:** 2,000 candelas as defined in FAA Advisory Circular 150/5345-43G

**Wattage:**
- 63.2 watts AC
- 60.0 watts at 12V DC
- 48.0 watts at 24V DC
- 37.6 watts at 48V DC

**Volt-Amps:** 108 VA at 120V AC

**Input Range:**
- 93 to 144 volts 120V AC
- 176 to 264 volts 220V AC
- 10.8 to 13.2 volts 12V DC
- 21.6 to 26.4 volts 24V DC

**Temp Rating:** ± 55° C per FAA certification test

**Dimensions:** 15 (381) x 15 (381) x 12 (304) H inches (mm)

**Weight:** 41 lbs 18.6 kg

**Mounting:** 4 Holes on 13.25-inch circle
The basic PFB-37001 beacon catalog number is intended for use with a Point POC Controller for most applications. Other configuration options below are available to be factory installed at time of order. Add the separate FAA Photoelectric Controller to all systems. Add the separate SPU Surge Protector Unit or POC Controller as required by the system.

**Universal Options**

| MT  | The fixture shall be treated for marine conditions by cleaning per US Department of Defense TT-C-490 method III, pretreated with chrome-free aluminum conversion coating per US MIL-C-5541 type II, epoxy powder base coat primer and glossy polyester powder coat finish in color RAL 6003 (FED-STD- S95 color #14097) dark green. Powder coating per US Department of Defense MIL-PRF-24712A type VI and oven cured. |
| NC  | NVG Compatibility for night vision |
| GPS | Control unit & antenna for GPS synchronization of flashing multiple beacons. |

**Backup Options**

| SB | Standby Beacon: add this option to the 2nd beacon to operate upon failure of the primary beacon. This standby beacon & the primary beacon will be stacked and interconnected. |

**ICAO Options**

| B  | ICAO Medium Intensity Type B (flashing) |
| C  | ICAO Medium Intensity Type C (steady-burning) and UK CAP 168 Medium Intensity Obstacle |
| D  | UK CAP 168 Low Intensity (Group B) (steady-burning) Table 6A.1 & CAP 437 paragraph 4.4 |

Options continue on page 3.
The basic PFB-37001 beacon catalog number is intended for use with a Point POC Controller for most applications. Other configuration options below are available to be factory installed at time of order. Add the separate FAA Photoelectric Controller to all systems. Add the separate SPU Surge Protector Unit or POC Controller as required by the system.

### Alarm Configuration Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>Required on each beacon when installed with any POC-68001 series digital controller.</td>
</tr>
<tr>
<td>SA1</td>
<td>Single beacon with internal flasher &amp; non-isolated alarm line powered by the line voltage</td>
</tr>
<tr>
<td>SA2</td>
<td>Single beacon with internal flasher &amp; voltage free alarm line to be powered by a remote AC or DC source supplied by others (isolated alarm line)</td>
</tr>
<tr>
<td>MA1M</td>
<td>Master beacon to be synchronized with one or more secondary beacons with internal flasher &amp; non-isolated alarm line powered by the line voltage; one master beacon per system.</td>
</tr>
<tr>
<td>MA1S</td>
<td>Secondary beacon synchronized by the above master beacon with internal flasher &amp; non-isolated alarm line powered by the line voltage; 1 to 3 secondary beacons per system.</td>
</tr>
</tbody>
</table>

### Recommended or Required Accessories

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPU</td>
<td>Each beacon contains limited surge protection. All POC controllers include circuit level surge protection. For systems without a POC, an SPU Surge Protector Unit is strongly recommended: ( SPU-10770-x ) ( x = 1 ) for 120v ( x = 2 ) for 220v ( ) Separately ordered and separately installed in the line feeding power to the beacons.</td>
</tr>
<tr>
<td>POC</td>
<td>See file OL300POC for a POC-68001 series system controller with touch screen option.</td>
</tr>
<tr>
<td>PPC</td>
<td>One FAA Photoelectric Controller is required per system. Separately ordered and separately mounted.</td>
</tr>
<tr>
<td>PPC-40002-34T</td>
<td>For AC systems with a POC Controller</td>
</tr>
<tr>
<td>PPC-40002-34T-OS</td>
<td>For 120v systems without a POC; includes override switch</td>
</tr>
<tr>
<td>Option –P</td>
<td>For wind turbine applications</td>
</tr>
</tbody>
</table>

**Recommendations:**
- **SPU Surge Protector**
  - See HL-4.1.5 for details
- **POC-68001 System Controller**
  - with Optional Touchscreen
- **FAA Photoelectric Controller**
  - PPC-40002-34T-OS
  - Includes Override Switch
OPTIONAL PL40139 HEAT SHIELD

The beacon heat limit is 55-deg C. Installation in higher temperature locations is not warranted.

The heat shield shall be installed suspended in the air space between the heat source and the beacon. The heat shield shall be fabricated of a rigid alumina fiber matrix that shall remain stable for continuous use at temperatures up to 3128-deg F (1720-deg C). The material shall not be affected by oil or water and shall be resistant to chemicals. Note: Do not use in the presence of hydrofluoric acid, phosphoric acid & very strong alkalis. The heat shield shall be 24-inches wide by 36-inches high. The shield should to be oriented as required to maximize protection.

See OL-8.3.0 for Heat Shield drawing

The PL40139 Heat Shield shall limit transmission of heat in accordance with these tested temperatures:

<table>
<thead>
<tr>
<th>STACK FACE</th>
<th>BEACON FACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>252 F</td>
</tr>
<tr>
<td>1200</td>
<td>343 F</td>
</tr>
<tr>
<td>1600 F</td>
<td>429 F</td>
</tr>
</tbody>
</table>

These temperatures are surface measurements on opposite faces of the PL40139 Heat Shield. It is expected that the air spaces between the stack skin and the shield and between the shield and the beacon will further limit the heat transmission.
**POINT FLASHING BEACON**

**PFB LED**
FAA L-864
ICAO TYPES B & C

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**Spare Parts & Service**

Do not open the beacon unless there has been an in-service failure. Opening the beacon before installation voids the warranty. See the instruction manual for troubleshooting procedures. All service must be performed inside a maintenance facility under clean and dry conditions.

See the instruction manual for a list of field serviceable parts. Contact Point Lighting for return repair service instructions. Do not attempt any testing or repair procedure not stated in the manual.

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**Beacon Mounting Pattern**

Hole Diameter 11/16 (17.5)
Bolt Circle 13-1/4 (337)
Bolt Square 9-3/8 (238) per side
Dimensions: Inches (mm)
Not to Scale

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**Beacon Cable Pigtail**

- Length: Two (2) meters
- Type: SOOW 600-volt
- Wires: Six (6) each #16 AWG

**Typical System Wiring**

- Power (3): Line-Neutral-Ground
  Typically #12 AWG
  From POC or SPU
- Alarm (1+): One (1) alarm line per PFB
  Typically #16 AWG
- Data (2): One (1) flash synchronization
  One (1) Return
  Typically #16 AWG

See Manual for specific wiring schemes

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**Preset Torque Tool**
PL10872
For Sealing Nut to reassemble PFB

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**Replacement Parts**

- PL10754 Lens, Outer Clear
- PL10818 Sealing Nut (see tool PL10872)
- PL10834-x LED Array Section
- PL10824A Power Supply LED
- PL10808 Power Supply AC-DC
- PL10807 Gasket, Lens Upper
- PL10806 Gasket, Lens Lower
- PL10825 Motherboard
- PL10821 Surge Protector AC
- PL10823 Surge Protector DC

See Instruction Manual for parts specific to the version installed at specific location.

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**Point Lighting Corporation**

Mail: P.O. Box 686, Simsbury, CT 06070
Tel 01 860.243.0600 USA
email: Info@PointLighting.com

Plant: West Dudley Town Rd, Bloomfield, CT
Fax 01 860.243.0665
website: www.PointLighting.com