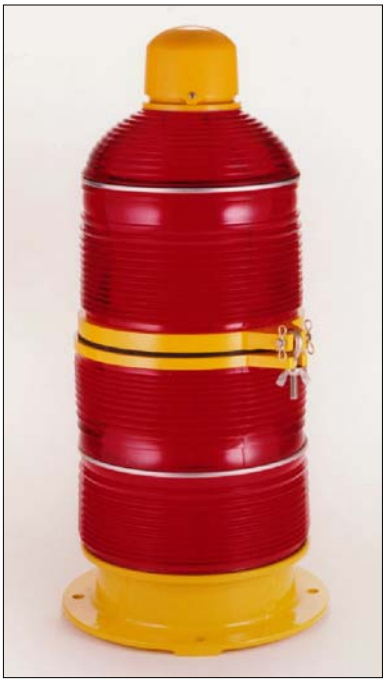
POINT OBSTRUCTION LIGHTS
PFB
INCANDESCENT FAA L-864

Tested & Certified by Intertek Testing Service (ETL) per FAA AC 150/5345-43F
Complies with ICAO Annex 14 Medium Intensity Types B (Flashing) & C (Fixed)

The PFB incandescent red flashing 300mm beacon is specified for use on aviation obstructions. The PFB has red Fresnel lenses and it is hinged at the midpoint for relamping. 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-810E, Method 509.3, Procedure I. The PFB beacon requires an external flasher type POF or POC series controller to operate as specified.

Point Type	— Lamps & Voltage	— Options
PFB-30000	700: 700 watts, 120 volts	FS: Flare Stack (see next page)
	620: 620 watts, 120 volts	L: Lowering System Type
	702: 700 watts, 230 volts	EX: Explosion-Proof (see OL211PFB)
	FAA certified with FAA lamp number 48B	

PFB-30000-620



Input Power:	120v or 220-240v, 50/60 Hz
Power:	1240 watts at 120v 10.3A (620w) 1400 watts at 120v 11.7A (700w)
Cable:	3-Conductor Type SOW (3-ft)
Temp Rating:	± 55° C
Mounting:	4 Holes on 13.25-inch circle

Replacement Parts	
PL10090	Red Lens Set (4)
PL10093	Socket, 620 & 700w
PL10026	Lamp 620w, 120v
PL10097-700	Lamp 700w, 120v
PL10097-702	Lamp 700w, 230v

Instruction Sheet:	IS30000
Lamp Life:	8000 Hours (700w) 3000 Hours (620w)
Height:	31.7 (805)
Diameter:	15.0 (381)
Weight:	80 lbs (36 kg)

SPECIFICATION

The incandescent red beacon shall comply with FAA L-864 and ICAO medium intensity Type B. All hardware shall be stainless steel including the tie rods. All exterior aluminum cast beacon parts shall be powdercoat painted aviation yellow for corrosion resistance that meets the US Military Standard Salt Fog Test conducted per MIL-STD-810E, Method 509.3, Procedure I. The lenses shall be separated using properly sized gaskets and metal Z-rings. The beacon shall be prewired with a 3-conductor #14 AWG cable and the portion inside the beacon shall be heat protected with fiberglass sleeving. Internal wiring shall be high temperature rated and fiberglass insulated. The system of red lenses shall be Fresnel type of tempered glass manufactured by Kopp Glass. The lenses shall be certified to meet the chromaticity requirements of U.S. military specification MIL-C-25050.

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OPTION: - FS FLARE STACK APPLICATION

No electronics, plastic or other temperature sensitive materials shall be used in the beacon manufacture. High temperature rated materials shall be used. All internal wiring shall be high temperature rated and fiberglass sleeve insulation shall also be added to fully cover all wiring. The external wiring cable loop shall be high temperature rated.

PL40139 HEAT SHIELD: OPTIONAL SHIELD FOR USE WITH OPTION - FS

The heat shield shall be installed suspended in the air space between the flare stack metal surface and the lowering system type PFB 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 shall be supplied complete with a carbon steel mounting frame for welding to the stack at both the top and bottom of the unit.

See file OL830HST for Heat Shield drawing

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

STACK FACE	BEACON FACE
800	252 F
1200	343 F
1600 F	429 F

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. The shield should to be oriented as required to maximize protection. Angle steel brackets are supplied to weld to field fabricated steel standoffs.

Installation Photo at Right:

Flare stack with PFB beacons mounted on lowering systems. There is a PL40139 heat shield mounted horizontally above each beacon.

POINT LIGHTING CORPORATION

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