

# POINT MORSE BEACON PMB HELIPORT & AIRFIELD IDENTIFICATION

Compliances: ICAO Annex 14, Paragraphs 5.3.3.8 through 13  
CAP 637, Paragraph 1.2.1 (UK)

The PMB flashing 300mm International Morse Code beacon is specified for use on airfields and heliports. The beacon is factory programmed to flash a customer specified message in Morse Code. Point Lighting can program almost any call letters, designator or phrase required. The standard message is the letter "H". Pause between message cycles is two seconds.

Point Type	Color	Lamp & Power	Options
PMB-33000	G: Green C: Clear / White	700: 700 watts, 120v 702: 700 watts, 230v	See next page

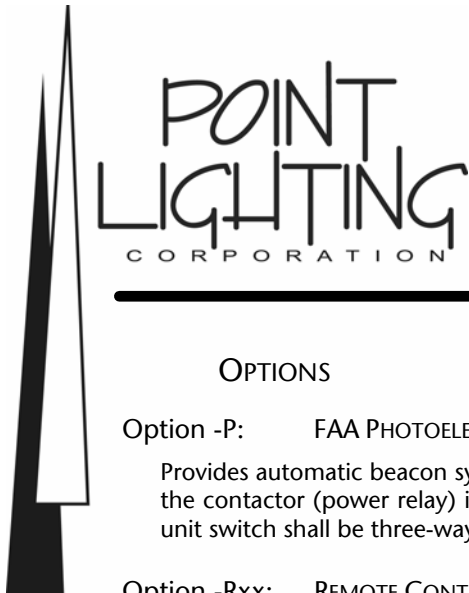
PMB-33000-G-702  
MORSE CODE BEACON SYSTEM

CONTROL UNIT SUBASSEMBLY  
PL33101-2



BEACON SUBASSEMBLY  
PL33102-G





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## OPTIONS

**Option -P:      FAA PHOTOELECTRIC CONTROLLER**

Provides automatic beacon system activation at dusk per FAA specifications. The PPC shall activate the contactor (power relay) in the PMB control unit for switching the system power. The control unit switch shall be three-way: ON-OFF-AUTO with PPC operation while in the AUTO position.

**Option -Rxx:    REMOTE CONTROL RELAY**

Provides automatic beacon system activation upon application of a signal from a remote source. A voltage applied from a remote source (by others) shall activate the contactor (power relay) in the PMB control unit for switching the system power. The control unit switch shall be three-way: ON-OFF-AUTO with remote control operation while in the AUTO position. Example: -R48 accepts 48 VDC from a remote source.

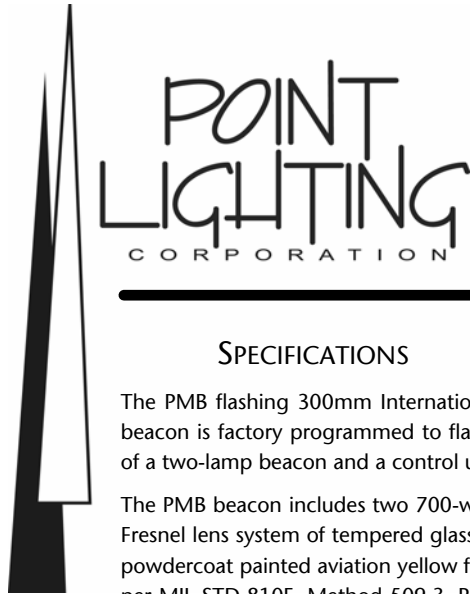
**Option -MC:    MARINE CONDITIONS**

Provides a stainless steel NEMA 4X enclosure for the PMB control unit, special sealing of the beacon lenses and liquid-tight flexible conduit between the beacon and the control unit (specify length required). The beacon is fully sealed to equal NEMA 4X standard (IP66).

Input Power:	120 or 220-240 VAC, 50 or 60 Hz
Power Consumption:	1400 watts at 120 VAC 11.7 amps
Power Consumption:	1400 watts at 230 VAC 6.1 amps
Temperature Rating:	± 55° C
Beacon Mounting:	4 Holes 0.625-inch dia. on 13.25-inch bolt circle
Control Unit Mounting:	4 Holes 0.320-inch diameter 8.00 (203) x 12.75 (324)

Instruction Sheet: IS33000	
Dimensions:	Inches (mm)
Lamp Life:	8000 Hours
Height (beacon):	31.7 (805)
Diameter (beacon):	15.0 (381)
Weight:	110 lbs (total) 50 kg
Volume:	8.0 ft      0.23 m

Replacement Parts	
PL10616-T	Lens, Green Top
PL10616-U	Lens, Green Upper
PL10616-L	Lens, Green Lower
PL10349-T	Lens, Clear Top
PL10349-U	Lens, Clear Upper
PL10349-L	Lens, Clear Lower
PL10097-700	Lamp 700w, 120v
PL10097-702	Lamp 700w, 230v



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## SPECIFICATIONS

The PMB flashing 300mm International Morse Code beacon system is specified for use on airfields and heliports. The beacon is factory programmed to flash a customer specified message in Morse Code. The PMB beacon system consists of a two-lamp beacon and a control unit.

The PMB beacon includes two 700-watt lamps rated for 8000 hours lamp life. The fixture has an aviation green or clear Fresnel lens system of tempered glass 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 lenses shall be separated using properly sized gaskets and metal Z-rings. The beacon shall be prewired with a 10-ft (3m) 3-conductor #14 AWG cable. The exposed ends inside the beacon shall be heat protected with fiberglass sleeving. Internal wiring shall be high temperature rated and fiberglass insulated.

The PMB control unit shall include the solid-state, encapsulated beacon flasher and the factory programmed electronic Morse Code module. There shall be a metal oxide varistor (MOV) to provide transient protection for the flasher module. The control unit shall include beacon lamp failure alarm and flasher failure alarm with isolated remote alarm contacts. There shall be a flasher bypass relay that keeps the beacon steady-burning upon flasher failure. The beacon shall be protected by a DIN-rail mounted current limiting circuit breaker providing thermal magnetic overcurrent protection in accordance with UL, CSA and IEC standards. The UL and IEC rated short circuit capacity shall be 10,000 amps. The breaker is resettable and the status is color coded.

The control unit shall have on the door mounted one (1) red alarm light for beacon failure indication and one (1) green Power ON light indicating the presence of power at the incoming line terminals and the contactor line side. There shall be a switch on the door to allow the PMB system to be manually energized. Upon failure of the first lamp, the lamp failure alarm relay activates isolated voltage free contacts for connection of remote indication (by others). All internal wiring and component spacing shall comply with the US National Electric Code and components shall be panel mounted. There shall be a 30-amp contactor (power relay) in the PMB control unit for switching the line power. Terminal blocks shall be supplied for power in, neutrals, option -P or -R connection, and power out to the beacon. Power (120 or 220-240 volts) shall be measured line to neutral, 50/60 Hz, 2-wire.

The POC enclosure shall be rated NEMA 4X fiberglass and industrial grade with hinged door and seamless gasket. The door is to be secured by two captive screws. The dimensions in inches (mm): 13.3 (338) x 11.29 (287) x 5.58 (142). The enclosure shall include two (2) bottom entry ¾-inch hubs supplied with cable fittings. The high quality enclosure shall be certified to IEC 529, IP66-11, UL 508A Types 4X, 12 & 13 watertight and dusttight. An instruction manual shall be included with each PMB.

Option -P: FAA Photoelectric Controller option provides automatic beacon system activation at dusk per FAA specifications. The PPC shall activate the contactor (power relay) in the PMB control unit for switching the system power. The control unit switch shall be three-way: ON-OFF-AUTO with PPC operation while in the AUTO position.

Option -Rxx: Remote Control Relay option provides automatic beacon system activation upon application of a signal from a remote source. A voltage applied from a remote source (by others) shall activate the contactor (power relay) in the PMB control unit for switching the system power. The control unit switch shall be three-way: ON-OFF-AUTO with remote control operation while in the AUTO position. Example: -R48 accepts 48 VDC from a remote source.

Option -MC: Marine Conditions option provides a stainless steel NEMA 4X enclosure for the PMB control unit, special sealing of the beacon lenses and liquid-tight flexible conduit between the beacon and the control unit (specify length required). Beacon fully sealed to equal NEMA 4X standard (IP66).

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