



POINT LIGHTING CORPORATION

POINT STATUS LIGHTS PSL LED HELIDECK STATUS LIGHT SYSTEM SAFE AREA & CLASS I, DIVISION 2 (ZONE 2)

Compliances: ETL Listed to UL 1598 at $\pm 55^{\circ} \text{C}$ (all) & UL 844 (option -EX)
 ETL Listed to CSA C22.2 No. 250.0-04 (all) & No. 137 (option -EX) Canada
 ETL Listed to UL 1598A Marine Vessels at $\pm 55^{\circ} \text{C}$, IP66 & IP67
 UK CAA CAP 437, ed. 9 (2023) Offshore Helideck Status Light System
 Class I, Division 2, Groups A B C D, T5 at $\pm 55^{\circ} \text{C}$ (option -EX)
 Class I, Zone 2, Groups IIA IIB+H2 IIC, T5 at $\pm 55^{\circ} \text{C}$ (option -EX)
 Registered ISO 9001:2015
 American Bureau of Shipping (ABS) Type Approved Product

The Status Light system consists of one or two PFB flashing red LED main status lights visible from any direction of approach and on any landing heading. Additional PRL-LSM repeater lights may be placed at the helideck. If a condition exists on an installation which may be hazardous for the helicopter or its occupants a visual warning system should be installed. The meaning of the flashing red light is either *Do not land, aerodrome not available for landing or Move clear of landing area*. The system may be automatically initiated by means of a remote alarm signal (by others) as well as manual activation.

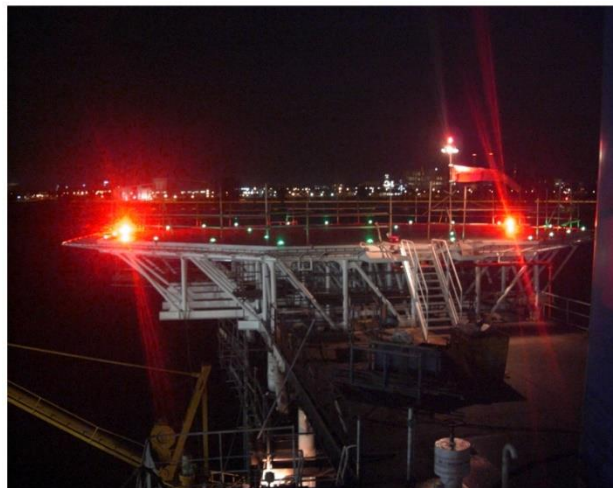


System	Color	Voltage	Main Lights**	Options
PSL-35002	R: Red	1: 120 volts $\pm 20\%$	1B: One (1)	1R: One (1) Repeater Light
		2: 220 volts $\pm 20\%$	2B: Two (2)	2R: Two (2) Repeater Lights
		4: 24 volts DC		EX: Class I, Div 2 (lights only)*

** The PSL system consists of a combination of lights as shown on page 6. CAP 437 ed.9, paragraph J.20, Note 1 requires two (2) main lights (-2B) for full compliance.

^^^ To have the PSL control unit integrated into a PHC system controller, add option -A and see page 4 & file HL411.

PSL SYSTEM UNDERGOING COMMISSIONING
TEST IN SINGAPORE



All external hardware is grade 316 (A4) stainless steel.
 Metal castings are copper-free (< 0.4%) heat treated aluminum.

- EX2: Class I, Div 2 (system)*
- ROS: Remote Override Station^
- ROSEX: Remote Override Station^^
- LTP: Lamp Test Pushbutton^^
- R24: Remote Digital 24V DC Control Signal
- SCSL: Switching Color
- WM: Control Unit Wire Markers^^
- PSS: Power Source Selector^^ for two power inputs (DNV)
- PTS: Automatic Transfer Switch^^
- SS: Stainless Steel 316L Box^^
- A: Combination PHC^^^
- JB & JBX: Junction Boxes (page 3)
- SNP & SNP2: Brackets (page 3)

* Class I, Zone 2, T5 $\pm 55^{\circ} \text{C}$
 ^ Remote operation: See details page 2.
 ^^ When option -A is used, this option is added to the PHC controller, not PSL.

PSL SYSTEM MAIN LIGHT



SPECIFICATION

The LED red status light system shall comply with UK CAA CAP 437 including IP66 & IP67. All exterior aluminum cast beacon parts shall be corrosion resistant and meet the US Military Standard Salt Fog Test conducted per MIL-STD-810F, Method 509.4, Procedure I, paragraph 4.5.2. 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-595 color #14097) dark green. Powder coating per US Department of Defense MIL-PRF-24712A type VI and oven cured. There shall be no exterior plastic parts; all shall be cast aluminum, glass and stainless steel. The light shall have an IP67 rated vent to prevent condensation by pressure equalization.

The main status lights shall flash in sync if two or more are installed. For each main status light there shall be a reduced intensity setting which will similarly synchronize flashing when in use. Additional repeater lights may be installed at the landing area and shall not exceed 150 mm in height. The repeater lights shall be at the reduced intensity level. The main light shall not exceed 250 mm in height.

The system may be switched ON by a remote signal or manually. When ON, the system may be manually switched to reduced intensity. After 30 minutes, the system will automatically revert to normal intensity. Failure of any light will display as an alarm at the controller.

Options –ROS and –ROSEX Remote Override Station

Main Light:	Intensity:	Flash Rate:
Normal mode	> 700 candelas	120 fpm
Reduced Intensity mode	< 60 candelas	Selectable: 120 or 60 fpm
<u>Main Status Light</u>	<u>watts</u>	<u>VA</u>
Peak Power:	70.1	116.8
	68.5	120V AC
	58.4	220V AC
		24V DC
Average Power:	35.1	58.4
	34.3	120V AC
	29.2	220V AC
		24V DC
Weight of Main Light:	20.2 lbs	9.2 kg
Input Voltage Range*:	120V AC unit ± 20%	
	220V AC unit ± 20%	
	24V DC unit ± 10%	
Temperature Rating:	± 55° C	

Provides for emergency remote manual operation of the status light system. When ordered, this station uses line voltage and connects to the "RTO" terminal block in the PSL system control unit. For a third party detection system intended to automatically activate the PSL system, the detection system control wire must provide line voltage matching the PSL to the ROS. The ROS switch will normally be set in the AUTO position, but may be manually switched to ON.

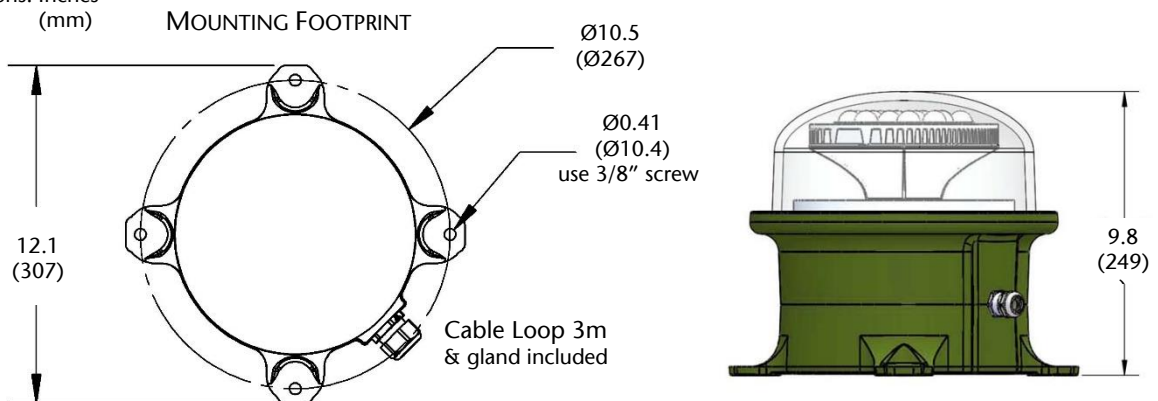
Note: For PSL systems without the ROS option, the third party detection system control wire connects directly to the "RTO" terminal block in the PSL system control unit.

Note: ROSEX is stainless steel 316L with Class I, Division 2 lights and operators. See Drawing 803969.

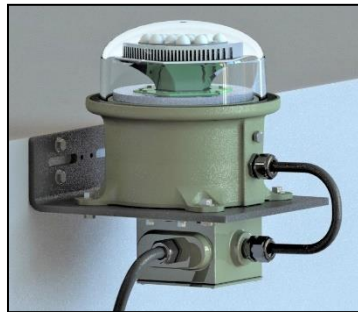
Option -ROSEX
Class I, Division 2
Class I, Zone 2



Dimensions: Inches
(mm)



MOUNTING BRACKETS & JUNCTION BOXES

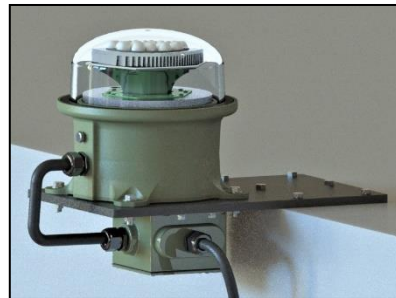


PFB-37002-SL MAIN LIGHT WITH
OPTION -SNP2 & OPTION -JB
COMPONENT OF PSL-35002 STATUS LIGHT SYSTEM

PL11247 WALL BRACKET KIT &
PL11545-34-MT JUNCTION BOX
Includes stainless steel hardware &
cable gland for PFB cable loop

PFB-37002-SL MAIN LIGHT WITH
OPTION -SNP & OPTION -JB
COMPONENT OF PSL-35002 STATUS LIGHT SYSTEM

PL11383 FLAT BRACKET KIT &
PL11545-34-MT JUNCTION BOX
Includes stainless steel hardware &
cable gland for PFB cable loop



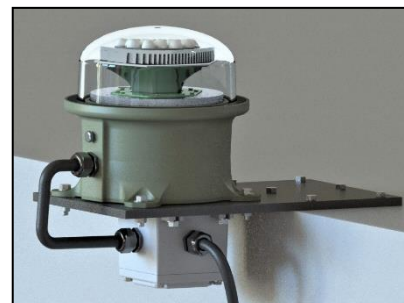
PFB-37002-EX-SL HAZARDOUS AREA MAIN LIGHT WITH
OPTION -SNP2 & OPTION -JBX
COMPONENT OF PSL-35002 STATUS LIGHT SYSTEM

PL11247 WALL BRACKET KIT &
PL11545-EX JUNCTION BOX
Includes stainless steel hardware &
cable gland for PFB cable loop

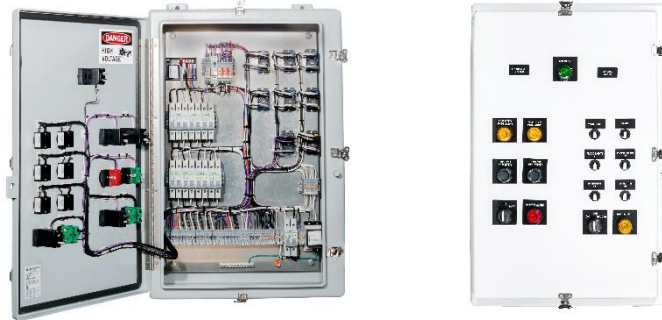


PFB-37002-EX-SL HAZARDOUS AREA MAIN LIGHT WITH
OPTION -SNP
COMPONENT OF PSL-35002 STATUS LIGHT SYSTEM

PL11383 WALL BRACKET KIT &
PL11545-EX JUNCTION BOX
Includes stainless steel hardware &
cable gland for PFB cable loop



COMBINATION CONTROLLERS



TYPICAL COMBINATION PHC HELIDECK LIGHTING SYSTEM CONTROLLER WITH INTEGRAL PSL CONTROL UNIT

Option –A: The PSL status light system control unit is integral with the PHC helideck lighting controller when ordered specifically as a combination controller. The photos above are of a “safe area” enclosure NEMA 4X for wall-mounted installation indoors or outdoors. We can also add a switch for the PTPS Circle-H lighting system operation. The PHC must be ordered with option –M for Marine Vessels and option –SL. Class I, Division 2 (Zone 2) and ATEX & IECEx hazardous area enclosures are available.

PSL MAIN LIGHT VENTED TO IP67 & HAZARDOUS LOCATIONS 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 and IP67 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.

Main Light PFB-37002-R-x-SL-NC
with PL10961-M12-HF Vent
Installed above the cable entry gland



PFB BEACON & PSL MAIN LIGHT
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.

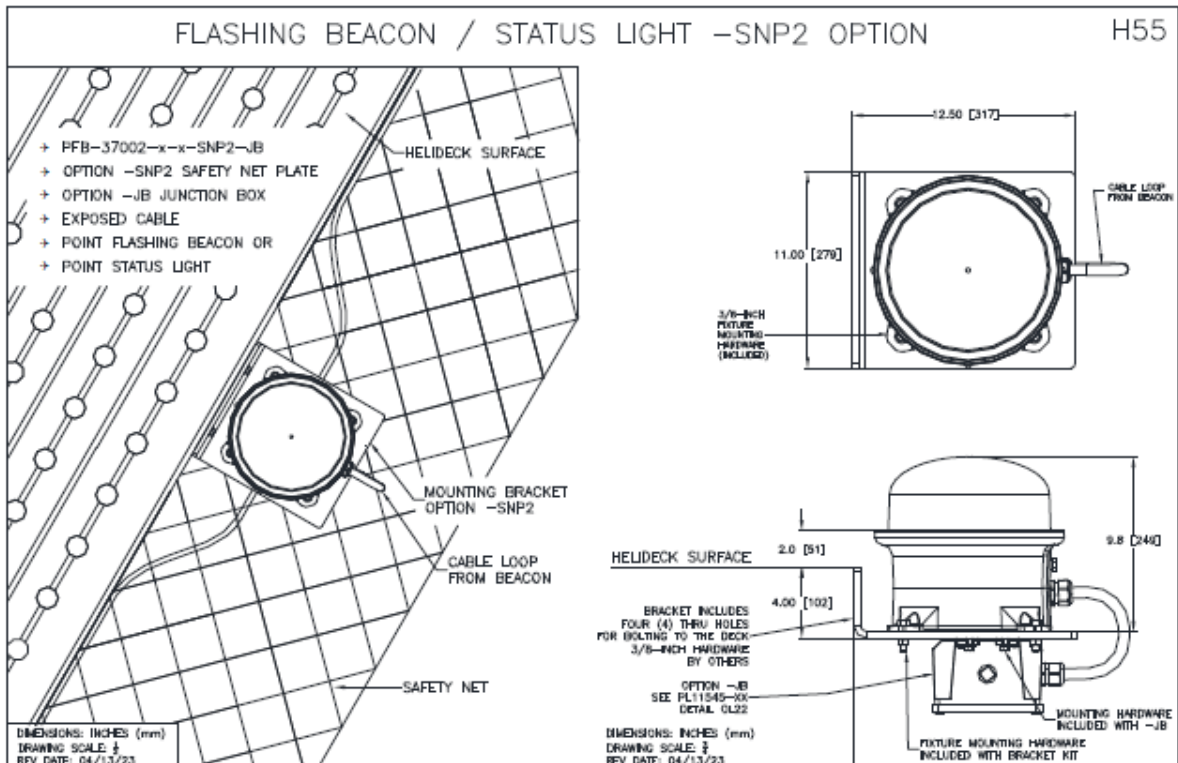
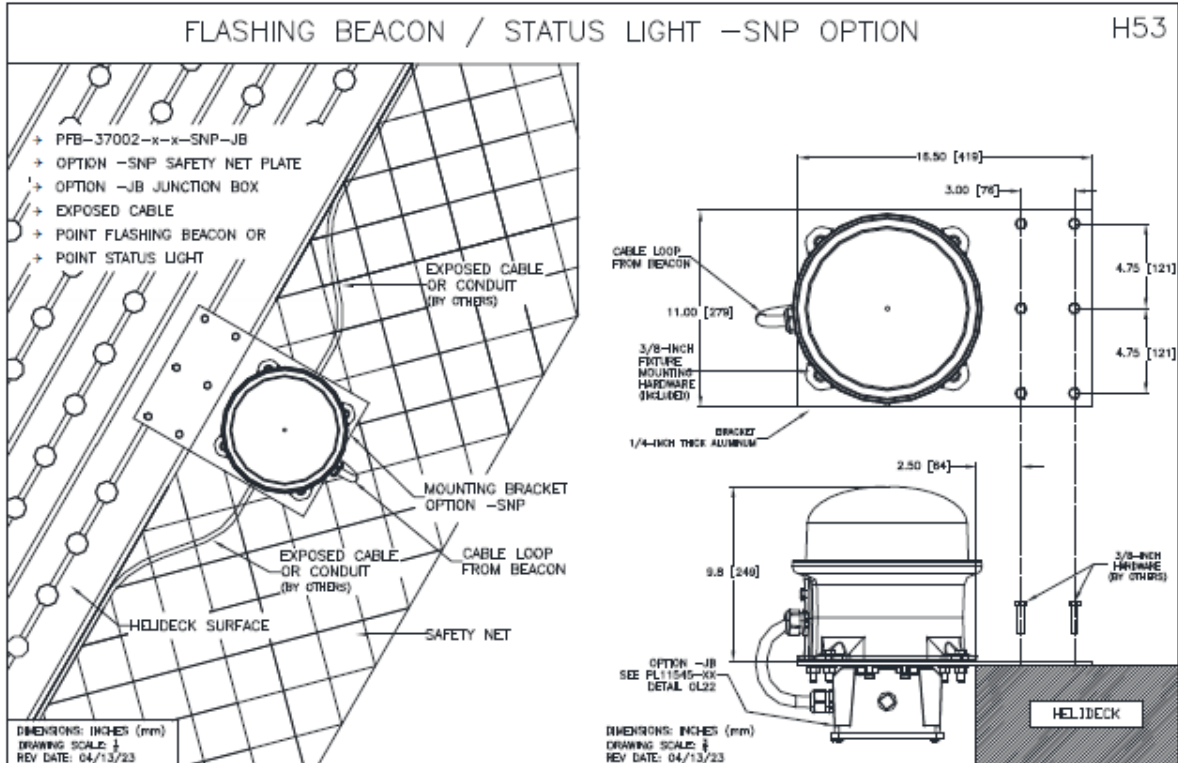
Ramp to -67°F (-55°C) and 50% humidity at the rate of 2.5°F/min (1h 15m).

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



POINT STATUS LIGHTS

PSL LED

TYPICAL ARRANGEMENT

SAFE AREA

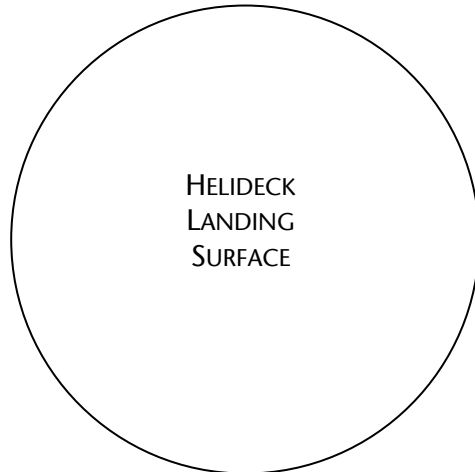
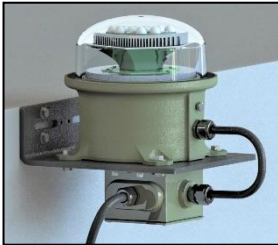
NOTE: Customers with existing PSL-35001 status light systems may be able to use the PFB-37002 main light as a direct replacement for the PFB-37001 main light without any programming. Contact Point Lighting.

NOTE: Repeater lights are optional..

MAIN STATUS LIGHT
PORT SIDE
PFB-37002-R-x-SL-NC
WITH BRACKET KIT OPTION -SNP2
& JUNCTION BOX KIT OPTION -JB



MAIN STATUS LIGHT
PORT SIDE
PFB-37002-R-x-SL-NC
WITH BRACKET KIT OPTION -SNP2
& JUNCTION BOX KIT OPTION -JB



REPEATER LIGHT
PRL-97004-xC-R-LSM-NC-SL2



REPEATER LIGHT
PRL-97004-xC-R-LSM-NC-SL2



PSL CONTROL UNIT
PL10870-xxxxxxx

Note: This unit may be integrated into a combination PHC controller

