

# POINT OBSTRUCTION LIGHTS POL LED v7 POINTSPEC® SERIES

**Compliances:** Verified to L-810 to FAA AC 150/5345-43J at -55 deg C to +55 deg C  
 Compliance to ICAO Annex 14 Low Intensity Types A (10 cd) & B (32 cd)  
 Listed to UL 1598 at -40 deg C to +55 deg  
 UL Tested & Certified to IP66 & IP67 Ingress Protection  
 FAA Engineering Briefs 67D & 98; Registered ISO 9001: 2015

- Red & IR LED onboard failure monitoring.
- Alarm monitoring available.
- The hardware is 316 (A4) stainless steel.
- The LED's are rated for 100,000 hours.
- Solar powered available.
- NVG compatibility is standard.
- The casting & lens are specially engineered forms of polycarbonate materials.
- Suitable for outdoor use with respect to exposure to ultraviolet light, water exposure & immersion in accordance with UL 746C (f1).
- Six (6) years limited warranty subject to Point Lighting "Terms & Conditions of Sale".

Point Type	Power	Standard	Color	Mounting	Style
POL-21007	1: 96-305v AC 5: 10.8v DC to 52.8v DC	F: FAA B: ICAO A/B	R: Red	34B: ¾-inch, Bottom 34L: ¾-inch, Unilet 10B: 1-inch, Bottom M20B: Metric M20 M25B: Metric M25	S: Single S3: Single & junction box S2: Single w/alarm line S2.3: Single w/alarm line & junction box D: Double w/both heads ON D2: Double w/transfer to standby & alarm D2.2: Double w/both heads ON & alarm D3: Double w/transfer, alarm & pilot light

**Power Consumption per Head:**

Voltage	Amps	VA	Watts
120	0.05	3.5	6.0
220	0.03	3.4	6.7
277	0.03	3.5	7.0
12	0.06		0.7
24	0.03		0.8
48	0.02		0.9



- Option -P: FAA Photoelectric Control  
Adds a prewired FAA PEC to -S2.3 or double
- Option -BKTU: Universal bracket kit for POL
- Option -SF: Slipfitter 2.375-in stainless steel
- Option -UPS: Battery backup; see page 4
- Option -SOL: Solar Powered; see page 2 & 3
- Option -PM: Solar array post mount max 3.0-in OD

POL-21007-1x-R-34B-S3  
SINGLE OBSTRUCTION LIGHT  
WITH JUNCTION BOX



POL-21007-1x-R-34B-S  
SINGLE OBSTRUCTION LIGHT



POL-21007-1x-R-34B-D  
DOUBLE OBSTRUCTION LIGHT



### SOLAR POWERED POL-21007 OBSTRUCTION LIGHTS

Choose one of the catalog numbers below to receive the mounting arrangement displayed in the graphic.

The POL-21007 is the proper selection for FAA L-810 certification as verified by Intertek Testing Service.

The light will operate at night automatically year round anywhere the solar irradiance is greater than 1.0 kWh/m<sup>2</sup>/day (>1.2 for -D2.2).

Important - All POL-SOL systems by definition include:

- POL-21007 fixture
- Option -BKTU wall-post bracket\*\* for the POL
- Option -CF cable fitting
- 3-meters SOW cable loop to the solar controller
- Solar array & solar controller with battery
- Floor-roof brackets\* for the solar array

\* Addition of option -PM changes to post brackets for the array & includes BKTU setup.

\*\* See page 5 for the POL bracket details.



POL-21007-5x-R-34B-D2-SOL-PM  
POL-21007-5x-R-34B-D2.2-SOL-PM



POL-21007-5x-R-34B-D2-SOL  
POL-21007-5x-R-34B-D2.2-SOL



POL-21007-5x-R-34B-S2.3-SOL



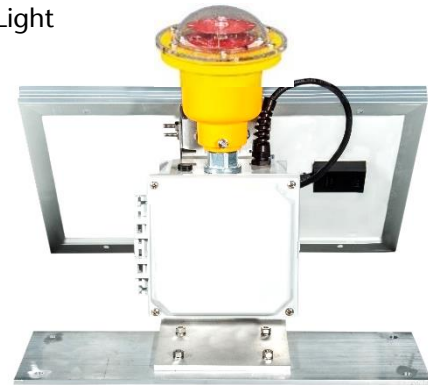
POL-21007-5x-R-34B-S2.3-SOL-PM

# POINT LIGHTING

## POINT OBSTRUCTION LIGHTS POL LED v7 POINTSPEC® SERIES



POL-21007-5B-R-SOL-FP  
All-In-One Portable or Fixed  
Solar Powered Obstruction Light  
Ships complete as shown



\* Site solar insolation minimum:

- SOL 2.0 kWh/m2/day
- SOLX 1.3 kWh/m2/day

POL-21007-5B-R-SOL-PM  
SINGLE OBSTRUCTION LIGHT  
SOLAR POWERED  
WITH OPTION -PM POST MOUNT

- Autonomy is 4.4 days\* battery capacity without sun
- For any location in the world. See solar insolation chart below.
- Includes carry handle
- May be screwed down to a flat surface or clamped
- No switching required.  
Operates automatically all night & turns off in the morning



POL-21007-5B-R-SOL  
SOLAR POWERED OBSTRUCTION LIGHT



Minimum solar insolation requirements provided are based on a temperature of 32-deg F (0-deg C). Locations with temperatures below freezing will have a reduced battery capacity and will require higher solar insolation values. Extremely low temperature sites may not be compatible with solar power. Consult the factory for assistance.



### UNINTERRUPTIBLE POWER SUPPLY OPTION -UPS PL11609-1 UPS UNIT

Note: Add option -UPS for a one POL or purchase PL11609-1 to power multiple POL obstruction lights and/or PFB-37003 flashing red beacons. It may also be used for a standalone PFB-37004 white or dual red-white beacon.

Required: For one POL, add option -P. For multiple lights, add one PPC-40700-1-34T on the output (load side) of PL11609-1 UPS unit.

See chart below for estimated run-times.

Note: Intended for emergency use only; do not use for regularly scheduled shutdowns of power such as nights and weekends.

For use with a POC system controller, the POC must be 120V and the PL11609-1 must be installed on the power feed to the POC (i.e. upstream of the POC & PPC).

#### Features & Functions:

- Automatic operation upon loss of power & upon restoration of power.
- Automatic battery charging.
- AC power Input: 96-264V AC
- Temperature range: -20-deg C (-4-deg F) to +55-deg C (131-deg F)
- The UPS sends 120V AC to the load. Use universal AC or 120V lights.
- Battery low voltage disconnect to protect the battery.
- The output to the load has a true pure sine wave.
- NEMA 4X (IP66) fiberglass enclosure.
- Includes 2 x ¾-inch NPT hubs and 1 x ¾-inch cable gland.

RUN-TIME IN NUMBER OF NIGHTS (12 HOURS)

	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

#### Notes on run-times and battery capacity:

- FAA photocontrol is required as either -P for one light or use PPC-40700-1-34T.
- Based on POL-21007-1F series. For POL-21005-1B, count each POL as a PFB-37003.
- 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-21007-1F-R number of operating heads.
- "PFB" means PFB-37003-R-1 flashing red beacon.



# POINT LIGHTING

## POINT OBSTRUCTION LIGHTS POL LED v7 POINTSPEC® SERIES

POL-21007-1F-R-34F-S2.3  
SINGLE OBSTRUCTION LIGHT  
WITH SIDE-WALL MOUNT JUNCTION BOX



POL-21007-1B-R-34B-D-P  
DOUBLE OBSTRUCTION LIGHT  
WITH PREWIRED FAA  
PHOTOELECTRIC CONTROL



POL-21007-1F-R-34B-S3-P  
SINGLE OBSTRUCTION LIGHT  
WITH JUNCTION BOX & PREWIRED  
FAA PHOTOELECTRIC CONTROL

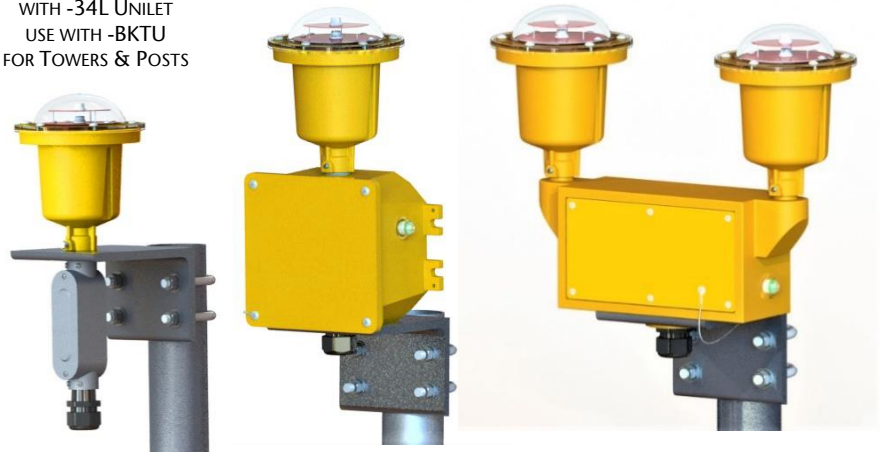


POL-21007-1F-R-34B-S-SF  
SINGLE OBSTRUCTION LIGHT  
WITH 60MM SLIPFITTER  
FITS 2-3/8-INCH TENON



POL-21007 SINGLE & DOUBLE WITH OPTION -BKTU  
MAY BE WALL-MOUNTED OR POST-MOUNTED. THE POST MAY BE CONDUIT  
OR PIPE TO A MAXIMUM OUTSIDE DIAMETER OF 3-INCHES (76MM).  
THIS BRACKET IS INCLUDED IN ALL SOLAR POWER VERSIONS (-SOL)

POL-21007 SINGLE  
WITH -34L UNILET  
USE WITH -BKTU  
FOR TOWERS & POSTS



FAA PHOTOELECTRIC CONTROLLER  
FOR A CIRCUIT OF POL'S  
PPC-40700-1-34T SEE FILE OL410



### WEIGHT & DIMENSIONS

	Weight		Height		Width		Depth	
	lb	kg	in	mm	in	mm	in	mm
POINTSPE Single:	1.0	0.45	6.6	(169)	5.5	(140)	5.5	(140)
POINTSPE Double:	6.2	2.8	12.2	(309)	15.8	(401)	5.5	(140)
Wind Loading:	Effective Projected Area (EPA) for POINTSPEC Lights							
	Double: 0.63 sq ft		Single (no box): 0.15 sq ft		Single (with box): 0.42 sq ft			



Intertek



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