Precision Approach Path Indicator (PAPI) LED

U.S. Patent 11,260,991

Compliances (Current Editions)

FAA: AC 150/5345-28 and Engineering Brief No. 67, ETL Certified

ICAO: PAPI Annex 14, Volume 1

Canada: PAPI / APAPI Transport Canada TP 312 par. 5.3.16.12 and Appendix 5B, Figure B-19

CASA: PAPI Part 139

EASA: PAPI/APAPI EU No 139/2014

Application

This system enhances safety by providing visual approach slope guidance to assist the pilot of an aircraft in flying a stabilized approach.
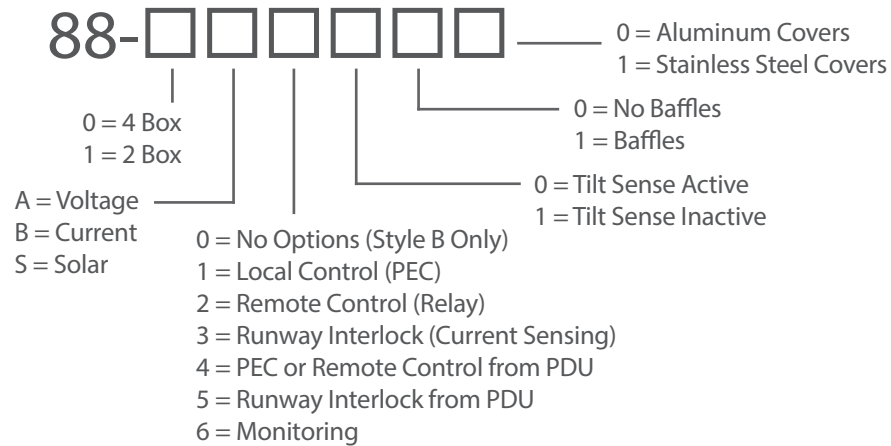
Key Features

- Estimated Life of LEDS > 150,000 hours at full intensity
- LED Display indicates angle and status without opening
- Redundant Digitally Controlled Lens Heaters
- 89 Max VA per light unit with heater active
- Compact and Light Weight (less than 40 lbs per LHA)

- Only one Liquid Tight conduit per light unit
- Optical Lens hardened against sandblast
- Optical Chamber Sealed against moisture and dust
- Streamlined mounting leg assemblies
- Retrofits directly on ALC incandescent installations
- External Junction Box (PDU) configurations available
- FAA Class 2: -55° C

Specifications

General Catalog Numbers

88-☐☐☐☐☐☐ ☐ ——— 0 = Aluminum Covers
1 = Stainless Steel Covers

0 = No Baffles
1 = Baffles

0 = Tilt Sense Active
1 = Tilt Sense Inactive

0 = 4 Box
1 = 2 Box

A = Voltage
B = Current
S = Solar

0 = No Options (Style B Only)
1 = Local Control (PEC)
2 = Remote Control (Relay)
3 = Runway Interlock (Current Sensing)
4 = PEC or Remote Control from PDU
5 = Runway Interlock from PDU
6 = Monitoring

Electrical Characteristics, Style A

Input Power 108-265VAC 50/60Hz	Lens Heater Inactive	Lens Heaters Active
L-880 (4 Box)	200 VA	260 VA
L-881 (2 Box)	100 VA	130 VA

Electrical Characteristics, Style B

Using a 200W Isolation Transformer	Lens Heater Inactive	Lens Heaters Active
L-880(L) (4 Box)	276 VA	356 VA
L-881(L) (2 Box)	138 VA	178 VA

Solar (48VDC)	Lens Heater Inactive	Lens Heaters Active
Each LHA (Night))	0.5A	1.9A
Each LHA (Day)	1.4A	2.9A

Packaged Characteristics

Weights

LHA & Mounting Kit	60 lbs
L-881 (2 Box) Cord Set	5.5 lbs
L-880 (4 box) Cord Set	11 lbs

Dimensions

LHA	29 x 21 x 12
Cord Set	13 x 13 x 9

Replacement Parts

Part #	Description
88-00100	Control / Tilt Board
88-00250	LED Light Engine Kit
88-00300	RS485 Communications Board
88-00400	Power Conditioning Board
88-04000	LED PAPI Top Assy with PEC
88-04500	LED PAPI Top Assy w/o PEC
88-00600	Display Board
88-00700	Power Supply, Style A
88-00205	Heated Lens Installation Kit
44-00175	Power Supply, Style B
59-E	Frangible Coupling
34-200666	L-830-6 200W 6.6A/6.6A Isolation Transformer
88-01932	L867B Base Plate w/PAPI Connector
88-02932	L867D Base Plate w/PAPI Connector