

RELIANCE

Approach Centerline, Crossbar, Siderow,
Threshold, Wingbar, End, Stopbar -
L-862S(L), L-862E(L)



Compliance with Standards

ICAO:	Annex 14, Volume I (Current Edition)
EASA:	Specifications version 4 CS-ADR-DSN
FAA:	L-862S(L) AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67
T/C:	Transport Canada TP 312, para. 5.3.5 for Precision Approach, para. 5.3.11, 5.3.12 and 5.3.18
US MIL:	UFC 3-535-01, section 3-1.4
NATO:	STANAG 3316

Uses

ICAO

- Approach Centerline and Cross Bar (ICAO §5.3.4)
- Approach Siderow (ICAO §5.3.4)
- Runway Threshold and Threshold Wing Bar (ICAO §5.3.10)
- Runway End (ICAO §5.3.11)
- Stop Bar (ICAO §5.3.20)

FAA

- Stop Bar L-862S(L)
- Runway Threshold L-862E(L)
- Runway End L-862E(L)

Features and Benefits

- RELIANCE® unidirectional elevated light fixtures are available in three versions:
 - IQ with integrated ILCMS
 - Monitored with integrated fail-open technology
 - Non-Mon without monitoring functionality
- High-intensity
- Average MTBF of 56,000 hours at full-intensity and more than 200,000 hours under typical operating conditions, resulting in significant reduction of ongoing maintenance costs and periodic relamping expenses.
- Low-profile and small in size to withstand heaviest jet blast, even when installed at threshold/runway end.
- Use less than 50 W, with a Power Factor of 0.95, compared to incandescent fixtures that require 150 W or 200 W lamps.

- Installation on same mounting device as most elevated halogen lights, for a straightforward replacement.
- Leveling and aiming in azimuth of the light are easily performed with the dedicated aiming device.
- Two opposite screws ensure easy and stable leveling.
- Rugged lightning protection that complies with ANSI/IEEE C62.41-1991 Location Category C2 given in FAA Eng. Brief 67. Category C2 is defined as a 1.2/50 μ S – 8/20 μ S combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A.
- When quartz-incandescent fixtures are replaced with LED fixtures, airport staff can add more lights without increasing CCR size.
- Limits cost for supporting equipment such as isolation transformers and CCRs to strict minimum.
- Use of LED light source eliminates filter replacement and color shifts when viewed at various angles or CCR step settings.
- Fully dimmable lights, respecting the response curve of traditional halogen lights.
- IP67 design prevents water, dust and insect entry.
- Available in IQ 2A functionality for use in RELIANCE Intelligent Lighting (ILCMS) for further power savings and individual intensity control.
- Optionally, LED lights can be equipped with an internal monitoring function of the individual light source. In case of a defect, the LED light automatically disconnects from the secondary side of the isolation transformer, resulting in an open circuit condition. Therefore external lamp fault detection devices of Constant Current Regulators and Individual Lamp Control and Monitoring Systems (ILCMS) can be used to monitor failed lights.
- For additional elevated LED features, see data sheet 3043.

Accessories and Options

Standard alignment tool:	1570.05.511
Electronic alignment tool	1570.05.521

Power Supply

Lights have been designed to work with any IEC- or FAA-compliant transformer up to 150 W. See the manual for calculation of actual circuit VA loads.

RELIANCE

Fixture Type	Fixture Load
EAPxxW - white approach	49 VA
EAPxxR - red approach	25 VA
ETHxxG - green threshold	35 VA
EENxxR - red runway end	18 VA
ETSxxR - red stop bar	13 VA

Maintenance

The light is made of a body, adjustable in elevation and azimuth, on which two cartridges are mounted. All optical components are grouped in the front cartridge, while the main electronic board is in the rear cartridge.



Dimensions and Weight

Height x Width x Depth:	285 x 135 x 200 mm / 11.22 x 5.31 x 7.87 in
Weight:	5.5 kg / 12.1 lb

Ordering Code

Elevated LED light

Application

AP = Approach Centerline,
Crossbars and Side rows
TH = Threshold and Wing Bars
EN = Runway End
TS = Supplementary stop bar

Cover

S = Glass

Cable and Connector

2 = 1 FAA L-823 plug (2 pins)

Color

W = White

R = Red

G = Green

Fixed Digits

N00

Power Supply and Monitoring

S = 6.6A - 50/60Hz series supply, w/out monitoring

M = 6.6A - 50/60Hz series supply, with monitoring

P = IQ0 Version⁵

Q = IQ1 Version⁵

Standard²

F = FAA only

I = ICAO only

Options

0 = No option

4 = With bird deterrent¹

Fixed Digit

0

Enhanced Corrosion Resistance

0 = Included

Version

1 = 3-block version

Notes

¹ Not defined by FAA, hence not ETL Certified.

² For all EAP, ETH and EEN lights, use I.

³ For ETS supplementary stop bar compliant to ICAO, use I.

⁴ For ETS compliant to FAA L-862S, use F.

⁵ The IQ functionality allows control and monitoring of the fixture. IQ1 fixtures are pre-configured for the specific position at delivery. This function is disabled in IQ0 fixtures but could be enabled later.

For more information about the product, including manuals and certifications, please see the ADB SAFEGATE Product Center at www.adbsafegate.com.

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