

RELIANCE

Runway Edge, Threshold and End,
L-861(L), L-861E(L) and L-861SE(L)
Omnidirectional elevated



ADB SAFEGATE
RELIANCE

Compliance with Standards

- FAA:** L-861(L), L-861E(L) and L-861SE(L) AC 150/5345-46 (Current Edition) and the FAA EB No. 67. ETL Certified.
- ICAO:** Annex 14, Vol. I (Current Edition)
- T/C:** Transport Canada TP 312, para. 5.3.12.7 and Appendix 5B Table 5B-1
- MOS:** Part 139, para. 9.10.6, 9.10.13, 9.10.19 and 9.10.22

Uses

FAA L-861(L)

- Runway edge
- Visual or non-precision IFR runways

FAA L-861E(L)

- Runway threshold/end
- Visual runways or non-precision IFR runways

FAA L-861SE(L)

- Runway threshold/end
- Non-precision IFR runways

ICAO and T/C

- ICAO non-precision approach; Runway edge, Threshold and End

MOS

- Low-intensity runway edge and threshold/end
- Medium-intensity runway edge and threshold/end
- Stopway

Features

- Average LED life of 56,000 hours under high-intensity conditions and more than 150,000 hours under typical operating conditions, resulting in significant reduction or even elimination of ongoing maintenance costs and periodic re-lamping expenses.
- Single-latch, stainless steel clamp allows easy removal and replacement of top cover and lens.
- A gasket is used between the lens and the top cover and also between the top and bottom fixture head assemblies to form a watertight seal.
- Light fixture with arctic option uses a thermostatically controlled heater to prevent ice and snow buildup from obscuring light output. Melts ice similar to traditional incandescent fixtures.
- Three screws allow a 4° leveling adjustment of the fixture after installation.

- Fixture comes standard with a 1.5-inch coupling, but is available with a 2-inch coupling and in alternative thread patterns.
- For additional features common to many of our elevated LED fixtures, see data sheet 3043.

Operating Conditions

Temperature: -40°F to +131°F / -40°C to +55°C

Wind: Withstands wind velocities up to 300 mph / 482 kph

Packaging

Assembled Fixtures	Dimensions of Cartons (H x W x D)		Indiv. Weight lb / kg
	Individual in / cm	15 per box in / cm	
14" OAH	20.5 × 6.5 × 6.5 / 52 × 17 × 17	19.5 × 23.5 × 15.75 / 50 × 60 × 40	5 lb / 2.3 kg
24" OAH	31 × 6.5 × 6.5 / 79 × 17 × 17	29.5 × 23.5 × 15.7 / 49.5 × 49.5 × 78.7	6.25 lb / 2.8 kg
30" OAH	6.5 × 6.5 × 37 / 16.5 × 16.5 × 94	19.5 × 19.5 × 37 / 49.5 × 49.5 × 94	7 lb / 3.2 kg

Leveling Device

Ordering Code

For accurate aiming and leveling, it is recommended to have one leveling device per airfield.



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Reliance EMIX-L LED Elevated Runway Edge Light Ordering Code

Application	Lens Type	Cable and Connector	Color - Side 1	Color - Side 2	Overall Fixture Height/Coupling	Power Supply	Photometrics	Arctic Option
E					0			00

Application

MI = Runway edge, medium intensity

Lens Type

S = Glass

Cable and Connector

2 = 1 plug (2 -pin)⁹

6 = 1 plug (2-pin) and separate earth ground wire⁹

8 = 1 plug (2 -pin), externally connected^{1,2}

Color - Side 1^{4,5,6}

W = White

Y = Yellow

R = Red

G = Green

N = None (Obscured)

Color - Side 2^{4,5,6}

W = White

Y = Yellow

R = Red

G = Green

N = None (Obscured)

Overall Fixture Height/Coupling

1 = 14 in (35.6 cm) with 1.5" coupling, 12 TPI

2 = 20 in (50.8 cm) with 1.5" coupling, 12 TPI

3 = 24 in (61.0 cm) with 1.5" coupling, 12 TPI

4 = 30 in (76.2 cm) with 1.5" coupling, 12 TPI

5 = 14 in (35.6 cm) with 2" coupling, 11.5 TPI

6 = 20 in (50.8 cm) with 2" coupling, 11.5 TPI

7 = 24 in (61.0 cm) with 2" coupling, 11.5 TPI

8 = 30 in (76.2 cm) with 2" coupling, 11.5 TPI

9 = 14 in (35.6 cm) with 2" coupling, 11 TP^{1,3}

A = 20 in (50.8 cm) with 2" coupling, 11 TP^{1,3}

B = 24 in (61.0 cm) with 2" coupling, 11 TP^{1,3}

C = 30 in (76.2 cm) with 2" coupling, 11 TP^{1,3}

D = 18 in (45.7 cm) with 1.5" coupling, 12 TPI

E = 18 in (45.7 cm) with 2" coupling, 11.5 TPI

H = 16 in (40.6 cm) with 1.5" coupling, 12 TPI

R = ICAO < 350mm OAH (2" coupling), 11.5 TPI^{1,3}

W = ICAO < 350mm OAH (2" coupling), 11 TPI^{1,3}

Power Supply

S = Current Driven, 50/60 Hz

Photometrics

0 = ICAO and FAA compliant

F = FAA compliant (L-861SE only)

C = Canada, TP 312-compliant¹

L = MOS 139 compliant (low intensity)^{1,8}

M = MOS 139 compliant (medium intensity)^{1,8}

Arctic Option

0 = Without arctic option

1 = With arctic option⁷

Ordering Code Notes

¹ Not ETL Certified.

² Cord set connected externally to column, not available if digit 9 is R or W.

³ Normally used in metric applications.

⁴ Color combinations not recognized by FAA: white/green, white/obscured, and yellow/obscured.

⁵ FAA color combinations are: red, red/green, obscured/green white/red, white/yellow, white/white, yellow/red, yellow/green and yellow/yellow.

⁶ MOS color combinations are white/white, red/white, red/obscured, red/green and obscured/green.

⁷ Arctic kit Not available for MOS 139.

⁸ MOS certified applications only available with overall height / fixture coupling options R or W).

⁹ If Digit 9 is R or W, digit 5 must be 2 or 6.

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Power Supply

Medium-intensity runway fixtures should be operated on a 3-step series circuit. 6.6 A through an L-830 (for 60 Hz) or L-831 (for 50 Hz) isolation transformer. Light fixtures LED lights have been designed to work with any IEC- or FAA-compliant transformer up to 30/45 W without affecting performance or lifetime of the light or the transformer.

	Fixture Load	Isolation Transformer	Isol. XF Load	CCR Load
L-861(L)				
W/out heater	9.9 VA	10/15 W	11.6 VA	21.5VA
With heater	29.9 VA	30/45 W	9 VA	38.9 VA
L-861E(L) - Bidirectional				
W/out heater	5.7 VA	10/15 W	12.2 VA	17.9 VA
With heater	25.7 VA	30/45 W	9 VA	34.7 VA
L-861E(L) - Unidirectional				
W/out heater	4.8 VA	10/15 W	12.4 VA	17.2 VA
With heater	24.8 VA	30/45 W	9 VA	33.8 VA
L-861SE(L) - Bidirectional				
W/out heater	14.1 VA	10/15 W	12.1 VA	26.2 VA
With heater	34.1 VA	30/45 W	9 VA	43.1 VA
L-861SE(L) - Unidirectional				
W/out heater	10.6 VA	10/15 W	12.3 VA	22.8 VA
With heater	30.6 VA	30/45 W	9 VA	39.6 VA
MOS 139 - Low-intensity				
W/out heater	11.3 VA	10/15 W	6.7 VA	18.0 VA
MOS 139 - Medium-intensity				
W/out heater	22.5 VA	20/25 W	10.1 VA	32.6 VA

For more information about the product, including manuals, certifications, and photometric data, please see our Product Center on the ADB SAFEGATE website: www.adbsafegate.com.