

RELIANCE

Taxiway Edge, L-861T(L) Omnidirectional elevated



Compliance with Standards

FAA: L-861T(L) AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67. ETL Certified.

ICAO: Annex 14, Vol. 1, para. 5.3.17; 5.3.18 (for photometry)
Chromaticity - Appendix 1, Section 2.3.1 (Blue LED)
Frangibility - Section 5.3.1.6

CE

Uses

Taxiway edge fixture is used to delineate the edges of airport taxiways.

FAA

- Taxiway Edge L-861(L)

ICAO

- Taxiway Edge

Features

- Average LED life of 100,000 hours under high-intensity conditions and more than 180,000 hours under typical operating conditions, which significantly reduces ongoing maintenance costs and periodic re-lamping expenses.
- The RELIANCE® taxiway edge fixture with heater fixture MTBF is at least 180,000 operating hours.
- UV-resistant polycarbonate outer lens option minimizes risk of lens damage if fixture is knocked over.
- Isolation transformers are available for use with the fixtures to match fixture load for optimal efficiency.
- Rugged low-profile design reduces damage due to jet blast.
- Provides $\pm 4.5^\circ$ vertical adjustment.
- Aluminum casting, stainless steel hardware, and protected with aviation yellow powder coat finish. Locking ring is protected with aviation blue powder coat finish.

Operating Conditions

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

Wind: Withstands wind velocities up to 300 mph / 480 kph

Power Supply

Current Driven

RELIANCE LED lights have been designed to work with any IEC or FAA-compliant transformer up to 100 W without affecting performance or lifetime of the light or the transformer.

Optional 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.

Note: The power usage is the same for the version with Monitoring.

ETES Fixture w/ heater	Fixture Load	Isolation Transfmr.	Isol. XF Load	CCR Load
Off	12 VA	20/25 W	7.5 VA	19.5 VA
Off	12 VA	30/45 W	8.4 VA	20.4 VA
On	25 VA	20/25 W	7.5 VA	32.5 VA
On	25 VA	30/45 W	9 VA	34 VA
ETES Fixture w/out heater	Fixture Load	Isolation Transfmr.	Isol. XF Load	CCR Load
Off	12 VA	10/15 W	3 VA	15 VA
Off	12 VA	30/45 W	8.4 VA	20.4 VA

Voltage Driven

Input voltage: 95 VAC (min.) - 264 VAC (max.), 50/60 Hz

Maximum input power (w/out heater): 10.2 VA

Maximum input power (w/heater): 25.2 VA at 120 VAC

Packaging

Assembled Fixtures	Dimensions of Cartons		Indiv. Weight ¹ lb / kg
	Individual in / cm	15 per box in / cm	
14-inch OAH	20.5 × 6.5 × 6.5 / 52 × 16.5 × 16.5	19.5 × 23.5 × 15.75 / 50 × 60 × 52	2.75 lb 1.25 kg
24-inch OAH	31 × 6.5 × 6.5 / 79 × 17 × 17	29.5 × 23.5 × 15.75 / 75 × 60 × 40	4 lb 1.81 kg
30-inch OAH	37 × 6.5 × 6.5 / 94 × 16.5 × 16.5	36 × 23.5 × 15.7 / 91.5 × 60 × 40	4.75 lb 2.15 kg

¹ Weight based on unpackaged fixture with arctic option.

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Ordering Code

LED Color	Fixture Height	Power	Arctic Option	Version
ETES/	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

LED Color

- 1 = Blue (Glass)
- 2 = Red (special applications only)¹
- 3 = White (special applications only)¹
- 4 = Green (special applications only)¹
- 5 = Yellow (special applications only)¹
- 6 = Blue (UV-resistant Polycarbonate)
- 9 = Yellow (UV-resistant Polycarbonate)¹
- A = Red (UV-resistant Polycarbonate)¹

Fixture Height

- R = ICAO <350mm OAH (2" coupling), 11.5 TPI^{1,4}
- W = ICAO <350mm OAH (2" coupling), 11 TPI^{1,4}
- 0 = 14" OAH without coupling^{1,3}
- 1 = 14" OAH (1.5" coupling), 12 TPI
- 2 = 24" OAH (1.5" coupling), 12 TPI
- 3 = 30" OAH (1.5" coupling), 12 TPI
- 4 = 14" (2" coupling), 11.5 TPI
- 5 = 24" OAH (2" coupling), 11.5 TPI
- 6 = 30" OAH (2" coupling), 11.5 TPI
- 7 = 14" OAH (2" coupling), 11 TPI^{1,4}
- 8 = 24" OAH (2" coupling), 11 TPI^{1,4}
- 9 = 30" OAH (2" coupling), 11 TPI^{1,4}
- A = Style 6 cord^{1 6}
- B = 14" OAH (1.5" slot coupling)¹
- C = 24" OAH (1.5" slot coupling)¹
- D = 30" OAH (1.5" slot coupling)¹
- E = 14" OAH (1.5" x 2" slot coupling), 11.5 TPI¹
- F = 24" OAH (1.5" x 2" slot coupling), 11.5 TPI¹
- G = 30" OAH (1.5" x 2" slot coupling), 11.5 TPI¹
- H = Style 1 cord^{1 3 6}
- L = 14" OAH (2" coupling), 11.5 TPI, 22" cordset
- M = 18" OAH (1.5" x 2" slot coupling), 11.5 TPI¹
- N = 18" OAH (1.5" coupling)
- P = 18" OAH (2" coupling), 11.5 TPI
- Q = 18" OAH (2" coupling), 11 TPI^{1,4}
- S = 20" OAH (1.5" coupling)
- T = 20" OAH (1.5" slot coupling)¹
- U = 20" OAH (2" coupling), 11 TPI^{1,4}
- V = 20" OAH (2" coupling), 11.5 TPI
- Z = 16" OAH (1.5" coupling), 12 TPI

Power

- 1 = Current Driven, 50/60 Hz
- M = Current Driven, Monitored 50/60Hz^{1,5}
- 3 = 95-264 VAC, 50/60 Hz
- A = APS Advanced Power Supply

Arctic Option

- 0/1 = Without/With Arctic Option

Version

- C = ROW Version
- = Not used for Buy American Preference

Notes

1. Not Submitted for ETL testing.
2. When powered by a parallel circuit, heater is designed for use at only 120 VAC, +/- 10%, 50/60Hz.
3. Configuration sold with no column and no coupling.
4. Normally used in metric applications.
5. If digit 7 = M, digit 9 must be = C.
6. No column or frangible coupling.