

TAXIWAY LIGHTING

ERGL-L

LED Elevated Runway Guard Light
MEDIUM-INTENSITY



Compliance with Standards

- FAA** L-804(L) AC 150/5345-46 (Current Edition) and the FAA Engineering Brief No. 67. Meets the requirements of Low-Visibility Taxiway Lighting Systems as specified by FAA AC 150/5340-30. ETL Certified.
- ICAO** Annex 14, Vol. I, Para 5.3.22 and Appendix 2 Fig. A2-25
- CE** Complies with Directives: 2004/108/EC (EMC) and 2006/95/EC (LV). (See note 6)

Uses

FAA L-804(L) and ICAO

- Runway guard light
- Runway incursion prevention

The L-804(L) Runway Guard Light is an elevated unidirectional flashing yellow light fixture that provides a distinctive warning to pilots that they are approaching a runway holding position and are about to enter an active runway. The L-804(L) is typically installed in pairs, one on either side of the taxiway holding position. The Elevated RGL can also be used in combination with L-852G (In-pavement RGL), L-852S (In-pavement Stop Bar Light), and L-862S (Elevated Stop Bar Light) to provide additional safety under low-visibility conditions on the airfield.

Features and Benefits

- 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
- Greatly reduces the load on the CCR
- LED RGLs can be powered with any CCR architecture type
- Light output mimics on/off curve of an incandescent lamp. Can be field modified for instant on/off modification, increasing conspicuity.
- Adjustable Light Beam: 0° to 20° vertically; ±20° horizontally
- Flash Rate: Alternating flashes, 45-50 per minute

- Input:
 - FAA Mode 1: 6.6 A Current-Driven - powered by series lighting circuit; intensity varies with current supplied to the fixture by the series circuit
 - FAA Mode 2: Voltage-Driven – powered from a 120 VAC ± 10%, 50/60 Hz or 240 VAC ±10%, 50/60 Hz parallel lighting circuit and equipped with photocell to control intensity. Photocell energizes LEDs at full intensity during high light levels and then reduces intensity to 30% during low ambient light conditions.
- Fixture is fabricated from corrosion-resistant materials, and all exterior surfaces are painted aviation yellow for added protection and visibility
- The two RGL light sources are surrounded by a black face plate and independent visors to reduce the amount of incident sunlight, thereby maximizing the contrast during the ON/OFF cycle
- For additional features common to all of ADB's elevated LED fixtures, see data sheet 3043.
- High-strength 1832RGL base plate is mandatory for FAA applications and should be used for ICAO applications. For more details see data sheet 2012.
- Includes frangible column and tether

Monitored RGL Applications



For monitored runway guard light applications, use a LINC 360 Remote for connection to the fixture. Contact the ADB SAFEGATE Sales Department for LINC 360 Remote part number.

Operating Conditions

- Temperature: -40 °F to +131 °F (-40 °C to + 55 °C)
- Humidity: 0 to 100%
- Wind: Withstands wind velocities up to 300 mph (480 kph)

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Ordering Code

Power^{3,4}

- 1 = Current-Driven, 60 Hz
- 2 = ICAO Voltage-Driven, 120 VAC, ±10%, 50/60 Hz⁶
- 3 = Current-Driven, 50 Hz
- 4 = ICAO Voltage-Driven, 240 VAC, ±10%, 50/60 Hz⁶
- 5 = FAA Voltage-Driven, 120 VAC, ±10%, 50/60 Hz
- 6 = FAA Voltage-Driven, 240 VAC, ±10%, 50/60 Hz

Monitoring

- 1 = No Monitoring (2-pin cord set)
- 2 = Monitoring Option 1⁷
- 3 = Monitoring Option 2⁸

LED Color

- 1 = FAA Traffic Signal Yellow⁹
- 2 = Traffic Signal Red^{2,5,9}
- 3 = ICAO Aviation Yellow^{1,5,6}

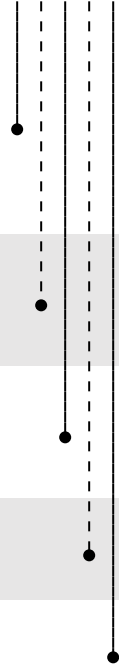
Photocell Feature

- 1 = Without photocell, current-driven only
- 2 = With photocell, voltage-driven only

Incoming Power On/Off Switch

- 0 = No switch
- 1 = With on/off switch

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9. Color only valid with Power Options 1, 3, 5 and 6.

Packaging

In cardboard box: 30 × 22 × 17 in (76.2 × 55.9 × 43.2 cm)
 Net weight (estimated): 37 lb (16.8 kg)

Electrical Supply

FAA Current-Driven				
6.6 A through a 6.6 A/6.6 A or 20 A/6.6A isolation transformer.				
Unmonitored				
Mode	Fixture Load (Max)	Transformer		
		Size	Load	CCR Load
Mimics Incand. Curve	46 VA	45 W	13 VA	59 VA
Instant On/Off	68 VA	65 W	15 VA	83 VA
Monitored				
Mode	Fixture Load (Max)	Transformer		
		Size	Load	CCR Load
Mimics Incand. Curve	66 VA	65 W	13 VA	79 VA
Instant On/Off	87 VA	100 W	16 VA	103 VA
FAA Voltage-Driven				
Input Voltage	120 VAC, ±10%, 50/60 Hz, 58 VA ¹ 240 VAC, ±10%, 50/60 Hz, 77 VA ¹			

Ordering Code Notes

1. Complies with color and illumination of ICAO Annex 14, Vol. 1, 6th edition specification for Runway Guard Lights. Color only valid with Power options 1-4.
2. Color not recognized by the FAA.
3. 1832RGL base plate is ordered and shipped separately. See datasheet 2012 for details.
4. Shipped from factory preset for incandescent on/off curve light output. Can be field modified for instant on/off operation. It is recommended that instant on/off be implemented only on dedicated 5-step CCR circuits.
5. Not ETL certified.
6. The L-804(L) LED part numbers that carry the CE Mark include: ERGL-21320, ERGL-31310, ERGL-41320.
7. Monitoring Option 1 provides a fault alarm. A dry contact closure is externally connected via a 5-pin plug (supplied) to indicate alarm status. Alarm status can be communicated using a BRITE II Remote.
8. Monitoring Option 2 provides a fault alarm for LINC 360 applications. A dry contact closure is connected to a LINC 360 Remote (Part No. AGC4170) via a cord set adapter (Part No. 44A7024, both purchased separately).

ICAO Current-Driven				
6.6 A through a 6.6A/6.6 A or 20 A/6.6 A isolation transformer				
Unmonitored				
Mode	Fixture Load (Max)	Transformer		
		Size	Load	CCR Load
Mimics Incand. Curve	85 VA	100 W	15 VA	100 VA
Instant On/Off	92 VA	100 W	18 VA	110 VA
Monitored				
Mode	Fixture Load (Max)	Transformer		
		Size	Load	CCR Load
Mimics Incand. Curve	105 VA	100 W	21 VA	126 VA
Instant On/Off	112 VA	100 W	24 VA	136 VA
ICAO Voltage-Driven				
Input Voltage:	120 VAC, ±10%, 50/60 Hz, 67 VA ¹ 240 VAC, ±10%, 50/60 Hz, 36 VA ¹			

Notes

¹ Maximum for either mimics incandescent curve or instant on/off operation.