

RELIANCE

LED Runway Guard Light, L-852G(L)
Unidirectional inset 8-inch and 12-inch



Compliance with Standards (current version)

FAA	AC 150/5345-46 and Engineering Brief No. 67
ICAO	Annex 14 Volume 1
IEC	61827
NATO	STANAG 3316
EASA	CS-ADR-DSN
STAC	PRO/STAC/SE/ENIS/600S
Canada	TP 312
Australia	MOS 139
CE	

Uses

ICAO

- Runway guard lights

FAA

- Runway guard lights L-852G(L)

Features and Benefits

Efficiency

- RELIANCE IQ fixture with built-in controlled flashing to be directly connected to the series transformer
- Available standalone system version including a remote control device keeping the light output synchronized
- Together with RELIANCE Intelligent Lighting, every light fixture is synchronized, controlled and monitored
- Compliance with Advanced Surface Movement Guidance and Control System (A-SMGCS)
- Light Emitting Diode (LED) technology that offers a long-lasting light source with low power consumption
- Compatibility with existing electrical infrastructure and the RELIANCE Intelligent Lighting 2A system for further power savings

Sustainability

- Fully encapsulated all-in-one electronics
- IP68 protected, aluminum housing designed for harsh weather environments, all fastenings in stainless steel
- Reinforced prism available as an option
- Operates on 3- or 5-step ferroresonant or thyristor CCRs designed in compliance with IEC or FAA requirements
- Easy handling and maintenance by modular design with few mechanical parts

Safety

- Runway guard light for day and night time use
- Built-in voltage surge and lightning protection
- Low protrusion, high-intensity, Style 3 inset light fixtures
- No negative slope in front of the prisms

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Accessories

Refer to the user manual for 8-inch and 12-inch RELIANCE inset lights.

Power Supply

An integrated, encapsulated 6.6 A electronic converter. Two-pole L-823 plug for connection to the transformer. Length of cable 18 inch. No additional electrical components between light fixtures and transformer needed. Power factor typically >0.9 at 6.6 A.

Note: Refer to the user manual for 8-inch and 12-inch RELIANCE inset lights and the complete power table and cable loss formula.

Maintenance and Installation

The light fixture can be installed in an 8-inch and 12-inch base. Gaskets are sold separately. Check what gasket and bolts to order depending on base and installation.

Note: Refer to the user manual for 8-inch and 12-inch RELIANCE lights and the interoperability information for installation in a specific base.

Operating Conditions

Operating temperature	-60 °C to +55 °C / -76 °F to +131 °F	
Storage temperature	-60 °C to +80 °C / -76 °F to +176 °F	
Humidity	Up to 100%	

Dimension and Weight

Dimension	203 mm / 8-in	304 mm / 12-in
Weight	2.7 kg / 6.0 lb	6.3 kg / 13.9 lb

Ordering Code

S I R G

Prism

S = Standard prism
R = Reinforced prism

Diameter

1 = 8 in
2 = 12 in

Type

U = Unidirectional

Light Distribution

S = Straight

Options

0 = No options

Color – B Side

Y = Yellow

Color – A side

N = Blank

Power and Monitoring

P = 2.8 - 6.6 A/2 A, IQ0 (IQ disabled)
Q = 2.8 - 6.6 A/2 A, IQ1 (IQ enabled)

Standards

I = ICAO
G = Global

Cord set type

A = Style 6 2-pin plug
F = Flat 3-pin plug (French, for ICAO only)

Cable and connector

2 = 1x 2-pin plug
4 = 1x 3-pin plug

Version

3 = RELIANCE

Note: The IQ - functionality allows control and monitoring of the RELIANCE IQ. IQ1 fittings are pre - configured for the specific position at delivery. IQ 0 fixtures needs to be configured before use.

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ANNEX

12- and 8- inch light fixtures

Unidirectional Fixtures – 1 cord set, 25° C	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
Runway Guard Light, L-852G(L), Yellow	21 VA	25 W	0.7	11 VA	32 VA

NOTICE:

- No losses in the secondary cables are considered in the above table.
- No losses in the primary cables are considered in the above table.
- No spare CCR load has been considered in the above table.
- The Isolation transformer efficiency considered in the above table is estimated. These efficiency values depend on the isolating transformer supplier.
- No loads due to extra equipment on the circuit (e.g. ILCMS equipment) are considered in the above table.

- For Reliance IQ version:
The minimum Isolation Transformer rating is 65W.
To allow for communication bandwidth, an overhead of 12VA should be considered when determining the Isolation Transformer rating.
- For Reliance Fail-open version:
The maximum Isolation Transformer rating is 200W.
- If part of a Reliance 2A system:
The data provided in the table above is not applicable if part of a 2A reliance system. In this case, please contact your local ADB Safegate representative.

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

www.adbsafegate.com

Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.