

RELIANCE

LED L-852G(L) Runway Guard Light

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/6008
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

RELIANCE

Ordering Code

Application

RG= Runway Guard Light

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)

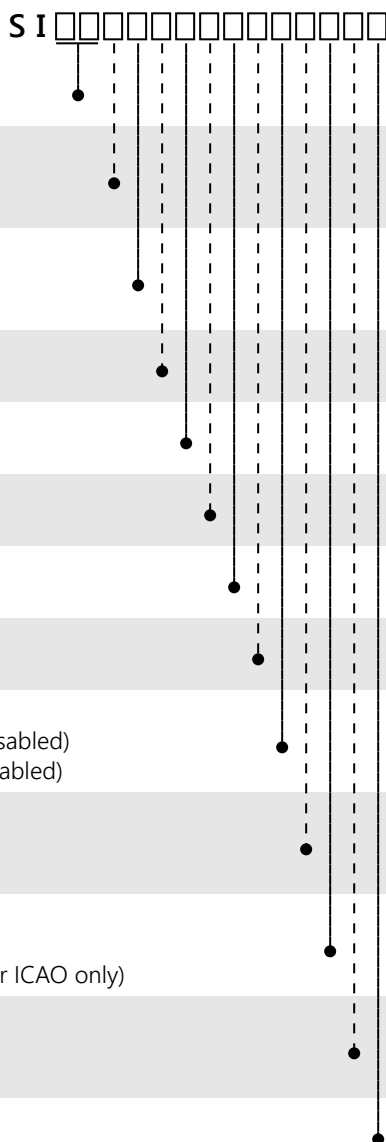
Cable and connector

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.

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

ANNEX

12- and 8- inch light fixtures

Bidirectional 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

Note:

- Additional voltage loss not included in the above table:
 - Primary cables will result in a higher CCR load
 - Longer secondary cables may result in a larger size isolation transformer requirement
 - Loads due to extra equipment on the circuit (e.g. ILCMS equipment)
 - Spare CCR load
- The isolation transformer efficiency is estimated and values can vary depending on supplier
- For IQ fixtures:
 - The minimum isolation transformer rating is 65W
 - An overhead of 12VA should be considered when determining the isolation transformer rating, to allow for communication bandwidth
- For fail-open fixtures, the maximum isolation transformer rating is 200W
- The Reliance 2A system does not conform to the above data (contact your local ADB Safegate representative)

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