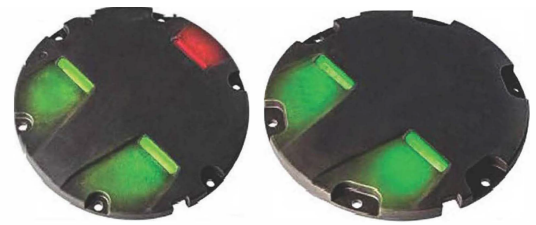


RELIANCE

LED L-850D(L) Runway Threshold,
Threshold/ End and End
Uni or bidirectional inset, 12-inch



ADB SAFEGATE
RELIANCE

Compliance with Standards (current version)

FAA	AC 150/5345-46 and the FAA 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 threshold
- Runway threshold / end
- Runway end

FAA

- Runway threshold L-850D(L)
- Runway threshold/end L-850D(L)
- Runway end L-850D(L)

Features and Benefits

Efficiency

- Available in three versions:
 - RELIANCE™ IQ with integrated intelligence
 - RELIANCE with integrated fail-open (Mon) technology. Fuse resistors are part of the Mon-functionality and spares needs to be ordered separately.
 - RELIANCE Non-MON, non-monitored lights
- Light Emitting Diode (LED) technology that offers a long-lasting light source with low power consumption
- Compatibility between RELIANCE IQ version and RELIANCE Intelligent Lighting 2A system for further power savings and ILCMS
- No visual flicker. PWM is used for some applications to optimize the LED performance and light fixtures show no visual flickering.

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
- Compatible with existing infrastructure

Safety

- Built-in voltage surge and lightning protection
- Fully dimmable lights, respecting the response curve of traditional halogen lights
- Low protrusion, high-intensity, Style 3 inset light fixtures
- No negative slope in front of the prisms

Maintenance and Installation

The light fixture can be installed in a 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 12-inch RELIANCE lights and the interoperability information for installation in a specific base.

RELIANCE

Ordering Code

Application

RT = Runway Threshold,
Threshold / End L-850D(L)
RN= Runway end L-850D(L)

Prism

S = Standard prism
R = Reinforced prism

Diameter

2 = 12 in

Type

U = Unidirectional
B = Bidirectional

Toe-in

S = Straight
L = Left
R = Right

Options

0 = No options

Color — B-side

R = Red
F = F-Green

Color — A-side

R = Red
N = Blank

Power and Monitoring

S = 2.8 - 6.6 A, without monitoring (Non-MON)
M = 2.8 - 6.6 A, with monitoring (with fail-open)
P = 2.8 - 6.6 A / 2 A, IQ0 (IQ disabled)
Q = 2.8 - 6.6 A / 2 1, IQ1 (IQ enabled)

Standards

G = Global (RN)
I = ICAO (RT)
F = FAA (RT)

Cord Set Style

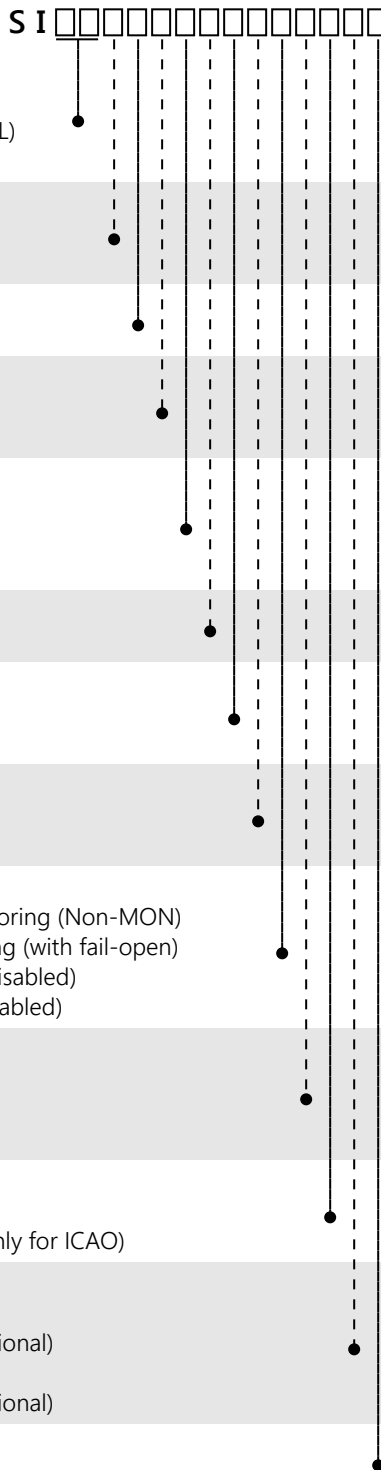
A = Style 6 2-pin plug
F = Flat 3-pin plug (French, only for ICAO)

Cable and Connector

2 = 1x 2-pin plug
3 = 2x 2-pin plug (for bidirectional)
4 = 1x 3-pin plug
5 = 2x 3-pin plug (for bidirectional)

Version

3 = RELIANCE



Note:

- Fixture supports: Compatible with both shallow and deep 12-inch bases.
- Toe-in options only affect the green threshold side.
- The IQ functionality allows control and monitoring of the RELIANCE IQ. IQ1 fixtures are pre-configured for the specific position at delivery. This function is disabled in IQ0 fixtures but could be enabled later. IQ light fixtures are only available as one connector option in an ILCMS.
- A 3-pin cable and connector are only available for the ICAO standard regardless of the color combination.

Accessories

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

Power Supply

An integrated, encapsulated 6.6A electronic converter. Two-pole L-823 plug for connection to the transformer. Power factor typically >0.95 at 6.6A.

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

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%

Dimensions and Weight

Dimensions	304 mm / 12-in
Runway Threshold , Threshold / End ICAO	5.3 kg / 11.8 lb
Runway end L-850D(L) ICAO and FAA	6.3 kg / 13.9 lb
Runway Threshold, Threshold / End L-850D(L) FAA	6.3 kg / 13.9 lb

ANNEX

Unidirectional Fixtures – 1 cord set, 25° C	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
Runway Threshold, L-850D(L), F-Green	30 VA	45 W	0.85	8 VA	38 VA
Runway Threshold, ICAO, F-Green	62 VA	65 W	0.85	11 VA	73 VA
Runway End, L-850D(L), Red	26 VA	45 W	0.85	8 VA	34 VA

Bidirectional Fixtures – 1 cord set, 25° C	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
Runway Threshold / End, L-850D(L), F-Green/Red	40 VA	45 W	0.85	8 VA	48 VA
Runway Threshold / End, ICAO, F-Green/Red	72 VA	100 W	0.85	18 VA	90 VA
Runway End, L-850D(L), Red/Red	35 VA	55 W	0.85	8 VA	43 VA

Bidirectional Fixtures – 2 cord sets, 25° C	Fixture load		Isolation transformer						CCR load	
	B-side	A-Side	Rating		Efficiency		Energy Use		B-Side	A-Side
			B-Side	A-Side	B-side	A-Side	B-Side	A-Side		
Runway Threshold / End, L-850D(L), F-Green/Red	26 VA	20 VA	45 W	25 W	0.85	0.7	8 VA	11 VA	34 VA	31 VA
Runway Threshold / End, ICAO, F-Green/Red	60 VA	20 VA	65 W	20 W	0.85	0.7	11 VA	9 VA	71 VA	29 VA
Runway End, L-850D(L), Red/Red	20 VA	20 VA	25 W	25 W	0.7	0.7	11 VA	11 VA	31 VA	31 VA

NOTICE:

- No losses in the secondary cables are considered in the above table(s).
- No losses in the primary cables are considered in the above table(s).
- No spare CCR load has been considered in the above table(s).
- The Isolation transformer efficiency considered in the above table(s) 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(s).
- 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 above table(s) 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.