

RELIANCE

LED Approach Centerline, Crossbar and Siderow

Unidirectional inset 12-inch

ADB SAFEGATE
RELIANCE



Compliance with Standards (current version)

ICAO	Annex 14 Volume 1
EASA	CS-ADR-DSN
IEC	61827
NATO	STANAG 3316
STAC	PRO/STAC/SE/ENIS/600S
Canada	TP 312
Australia	MOS 139
CE	

Uses

ICAO

- Approach centerline
- Approach crossbar
- Approach siderow

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

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Accessories

Refer to the user manual for 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. Power factor typically >0.95 at 6.6 A.

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

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.

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

Weight 5.3 kg / 11.8 lb

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ANNEX

Unidirectional Fixtures – 1 cord set, 25° C	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
Approach Centerline & Crossbar, White	71 VA	100 W	0.85	18 VA	89 VA
Approach Siderow, Red	47 VA	65 W	0.85	11 VA	58 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 our Product Center on the ADB SAFEGATE website: www.adbsafegate.com.

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