RELIANCE

LED Approach Centerline, Crossbar and Siderow

Unidirectional inset, 12-inch

Compliance with Standards (current version)

ICAO	Annex 14 Volume 1
EASA	CS-ADR-DSN
IEC	61827
NATO	STANAG 3316
STAC	PRO/STAC/SE/ENIS/6008
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

RELIANCE

Ordering Code

S I □□□□□□□□□□□□□□□

Application
AC= Approach Centerline / Crossbar
AS= Approach Siderow

Prism
S = Standard prism
R = Reinforced prism

Diameter
2 = 12 in

Type
U= Unidirectional

Toe-in
S = Straight
L = Left
R = Right

Options
0 = No options

Color – B Side
R = Red (AS)
W= White (AC)

Color – A side
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 A, IQ1 (IQ enabled)

Standards
I = ICAO Annex 14

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:

- Fixture supports: Compatible with both shallow and deep 12-inch bases.
- 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 a one connector option.
- 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 6.6 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

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

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.