RELIANCE

LED Stopbar

Unidirectional inset 8-inch and 12-inch

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/VIS
Canada	TP 312
Australia	MOS 139

CE

Uses

FAA

- Stop bar L-852S(L)

ICAO

- Stop bar

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
- RELIANCE IQ fixture does not require any additional control box and is directly connected to the serial transformer
- 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 between RELIANCE IQ version and 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

- Support for controlled and uncontrolled installations
- Built-in voltage surge and lightning protection
- Low protrusion, high-intensity, Style 3 inset light fixtures
- No negative slope in front of the prisms

Accessories

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

Power Supply

An integrated, encapsulated 6.6A 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 6.6A.

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 a 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	-40 °C to +55 °C / -40 °F to +131 °F
Storage temperature	-60 °C to +55 °C / -76 °F to +131 °F
Operating humidity	Up to 100%
Altitude	Sea level to 3000 m / 10.000 feet

Dimensions and Weight

Dimensions	203 mm / 8-in	304 mm / 12-in
Weight	2.7 kg / 6 lb	6.3 kg / 13.9 lb

RELIANCE

Ordering Code FAA

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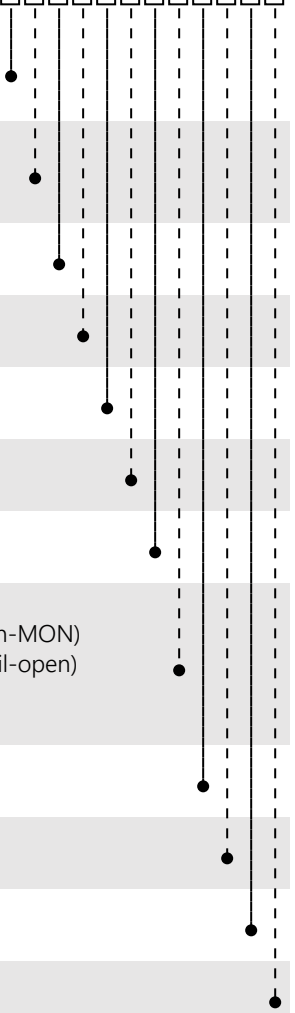

Prism
S = Standard prism
R = Reinforced prism

Diameter
1 = 8 in
2 = 12 in

Type
U = Unidirectional

Light Distribution
S = Straight

Options
0 = No options

Color – B Side
R = Red

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
F = FAA AC 150/5345-46E

Cord set type
A = Style 6 (2-pin) plug

Cable and connector
2 = 1x 2-pin plug

Version
3 = RELIANCE

Ordering Code ICAO

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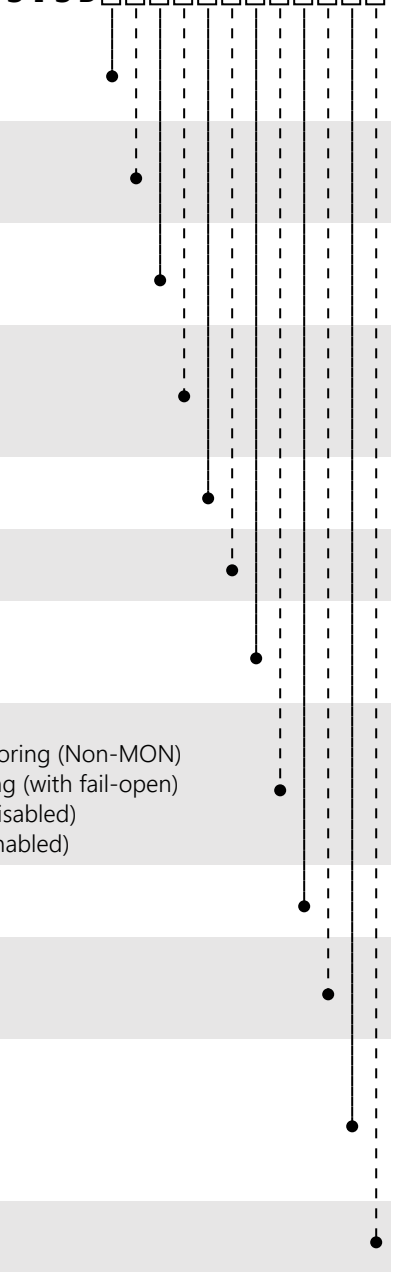

Prism
S = Standard prism
R = Reinforced prism

Diameter
1 = 8 in
2 = 12 in

Type
U = Unidirectional
B = Bidirectional

Light Distribution
W= Wide
R = Right (unidirectional)
L = Left (unidirectional)

Options
0 = No options

Color – B Side
R = Red

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 A, IQ1 (IQ enabled)

Standards
I = ICAO

Cord set type
A = FAA Style 6 (2-pin) plug
F = Flat 3-pin plug

Cable and connector
2 = 1x 2-pin plug
3 = 2x 2-pin plug
4 = 1x 3-pin plug
5 = 2x 3-pin plug

Version
3 = RELIANCE

Note:

- Fixture compatible with both shallow 8 - inch and 12 - inch and deep 12 - inch bases, check base compatibility matrix.
- The IQ - functionality allows control and monitoring of the RELIANCE IQ. IQ1 fittings 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 with connector option 2.

ANNEX

12-inch and 8-inch light fixtures

Unidirectional Fixtures – 1 cord set, 25° C	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
Stopbar, Red	19 VA	25 W	0.7	11 VA	30 VA
Stopbar, L-852S(L), Red	23 VA	25 W	0.7	11 VA	34 VA

Bidirectional Fixtures – 1 cord set, 25° C	Fixture load	Isolation transformer			CCR load
		Rating	Efficiency	Energy Use	
Stopbar, Red/Red	24 VA	25 W	0.7	11 VA	35 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
Stopbar, Red/Red	14 VA	14 VA	25 W	25 W	0.7	0.7	11 VA	11 VA	25 VA	25 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 table(s) 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.