LED Runway Threshold Wingbar Unidirectional inset 12-inch



# Compliance with Standards (current version)

FAA AC 150/5345-46 and FAA Engineering Brief No. 67

| ICAO   | Annex 14 Volume 1 |  |  |  |
|--------|-------------------|--|--|--|
| IEC    | 61827             |  |  |  |
| EASA   | CS-ADR-DSN        |  |  |  |
| NATO   | STANAG 3316       |  |  |  |
| STAC   | PRO/STAC/SE/VIS   |  |  |  |
| Canada | TP 312            |  |  |  |

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## Uses

#### ICAO

• Runway threshold wingbar

# **Features and Benefits**

#### Efficiency

- Available in three versions:
  - RELIANCE<sup>™</sup> 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



### 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 appendix in 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 inset 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 |  |  |



| Ordering Code S I  |
|--|
| Application<br>RW= Runway threshold Wing bar   |
| Prism   S = Standard prism   R = Reinforced prism  |
| Diameter I I I I   2 = 12 in I I I I   |
| Type Image: Im |
| Toe-inIIIS = StraightIIIL = LeftIIIR = RightIII  |
| Options     1     1     1     1       0 = No options     •     1     1     1     1   |
| Color – B Side     1     1     1       F = F-Green     1     1     1     1   |
| Color – A side     1     1     1       N = Blank     •     1     1     1   |
| 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  |
| Cord set typeA = Style 6 (2-pin) plugF = Flat 3-pin plug (French,for ICAO only)  |
| Cable and Connector2 = 1x 2-pin plug4 = 1x 3-pin plug  |
| Version<br>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 on e connector option.
- A 3-pin cable and connector are only available for the ICAO standard regardless of the color combination.



### ANNEX

| Fixture type - 1 cord set               | Fixture load | Isolation transformer |       |            | CCR load |
|---|--------------|-----------------------|-------|------------|----------|
|   |              | Rating                | Loss  | Efficiency | CCR IOau |
| Runway Threshold Wingbar, ICAO, F-Green | 64 VA        | 65 W                  | 11 VA | 0.85       | 75 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.





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