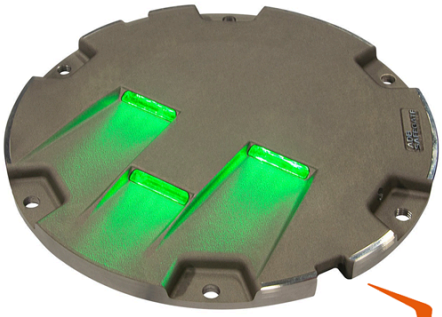
# AXON

## LED ICAO Runway Threshold Wingbar

## Unidirectional Inset, 12-inch



ADB SAFEGATE

AXON

## Compliance with Standards

| | |
|---|---|
| **ICAO** | Annex 14, Volume 1 |
| **IEC** | 61827 |
| **NATO** | STANAG 3316 |
| **EASA** | CS-ADR-DSN |
| **STAC** | SPE/STAC/SE/E/VIS/6008 |
| **Canada** | TP 312 |

CE

## Uses

### ICAO

- Runway threshold wingbar

## Features and Benefits

### Efficiency

- EQ has an integrated ILCMS remote for use with the LINC 360 system providing high data capacity and resisting degradation from various types of radio effects to provide a superior communication platform
- Precision aimed optics enhancing photometric performance and complementing extended LED life
- Reduced bottom pan profile allowing for very shallow base can installation
- LED pulse width modulated (PWM) at 400 Hz optimizing LED performance and eliminating perceptible flicker to a moving human observer throughout the range of brightness steps
- Operates at all steps of constant current regulator technologies designed in compliance with IEC or FAA requirements
- Fully dimmable lights, conforming to the dimming curve of traditional halogen lights
- Low protrusion, high-intensity, Style 3 (≤ 6.35 mm) inset light fixtures
- No negative slope in front of the prisms

### Sustainability

- Fully encapsulated all-in-one universal power supplies for Runway, Taxiway, Approach and Omni inset families
- Latest generation LEDs providing a long-lasting light source with high efficiency and low power consumption
- Reinforced top cover substantially exceeding standards to improve durability and longevity (directional beams only)
- One single family of fixtures covering all runway, taxiway and approach applications
- IP68 rated enclosure designed for harsh environments; all fastenings are stainless steel
- Reinforced prism available as an option
- Compatible with existing infrastructure allowing for direct replacement of existing LED inset fixtures

### Safety

- Improved mechanical design to strengthen and consolidate components, improving the customer maintenance experience
- Fail-open option for compatibility with legacy monitoring systems and optimization of advanced control and monitoring systems
- Failed LED detection as required by Engineering Brief 67D
- Robust lightning protection complying with ANSI/IEEE C62.41-1991; Location Category C2 as required by FAA Engineering Brief 67 Category C2 is defined as a 1.2/50 µS – 8/20 µS combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

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## Ordering Code

| | Application | Standard(s) | Market Specific | Dimensions | Prism | Beam Orientation | Toe-in | Color - Side 1 (Left) | Color - Side 2 (Right) | Power and Monitoring | Connector and Cable | Options | Version |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RS | | | | | | | | | | | | | |

**Application**
RW = Runway Wingbar

**Standard(s)**
3 = ICAO[1]

**Market Specific**
0 = None
2 = Anodized Finish
4 = German MIL 7-step FO

**Dimensions**
2 = 12 inch (305 mm) diameter, 11.25 inch BC (285 mm)

**Prism**
S = Standard prism
R = Reinforced prism

**Beam Orientation**
1 = Unidirectional

**Toe-in**
N = None
L = Left Side Toe-in (Unidirectional)
R = Right Side Toe-in (Unidirectional)

**Color - Side 1 (Left)**
F = F-Green (ICAO,default green)

**Color - Side 2 (Right)**
N = None

**Power and Monitoring**
S = 2.8 - 6.6 A, Non-Monitored — Power Only
M = 2.8 - 6.6 A, Fail-Open Monitoring
R = 2.8 - 6.6 A, EQ Integrated LINC 360

**Connector and Cable**
1 = 1 x Style 6 2-Pole Plug, 2 Individual Wires[2]
2 = 1 x Style 1 2-Pole Plug, Jacketed SO 2 Core Cable[2]
5 = 1 x Flat 3-Pole Plug, 3 Individual Wires[2]

**Options**
0 = None

**Version**
1 = Version 1

### Ordering Code Notes

1. Includes standards NATO, EASA, STAC, TP 312 and MOS 139.
2. All Style 1 corded fixtures will include a ground lug. All Style 6 or 3-pole corded fixtures will be provided without a ground lug.

## Power Supply Options

- Non-monitored — power only
- Monitored — integrated fail-open technology
- EQ with integrated ILCMS with OFDM technology for use with LINC 360 system

## Installation and Maintenance

The light fixture can be installed in a 12-inch base. Gaskets are sold separately. Refer to the user manual INTEROPERABILITY appendix to identify the correct gasket and bolts for your specific base and ensure a reliable fit.

## Operating Conditions

| | |
|---|---|
| **Operating temperature** | -55 °C to +55 °C / -67 °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** | 6.8 kg / 15 lb (12 in) |

## ANNEX

### 12-inch light fixtures without Arctic Kit

| **Fixture type – 1 cord set**[1] | **Fixture load** | **Isolation transformer** | | **CCR load** |
|---|---|---|---|---|
| | | **Wattage** | **Load** | |
| Runway Threshold Wingbar | 35 VA | 45 W | 10 VA | 45 VA |

[1]Values provided are for the "S" option non-monitored power only.

**Note:**

- EQ fixtures:
  - The isolation transformer must have an additional 8 VA available above the fixture load for communication bandwidth. Size transformer to next size up to assure additional 8 VA coverage
  - Legacy BRITE II or AGLAS 2 systems — Order "M" power supply
- Fail-open fixtures:
  - The maximum rating for the isolation transformer is 150 W (a correctly calibrated CCR is important to achieve an accurate fail open response)
- Additional voltage loss not included in the above table which must be factored into the circuit load calculation:
  - Primary cables will result in a higher CCR load
  - Longer secondary cables may result in a larger size isolation transformer requirement
- Efficiency of the isolation transformer depends on the manufacturer of the transformer
- See user manual for cable loss formula and other power supplies

*For more information about the product, including manuals and certifications, please see our Product Center on the ADB SAFEGATE 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.*