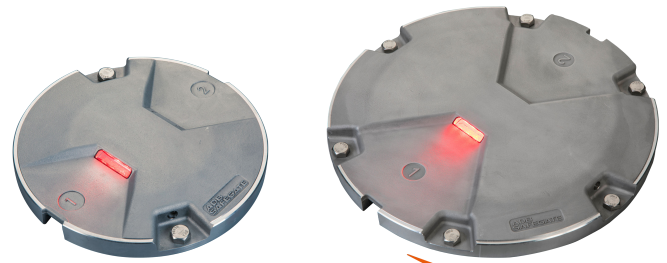


# AXON

## LED Stop Bar ICAO

Unidirectional Inset 8-inch and 12-inch



ADB SAFEGATE  
**AXON**

### Compliance with Standards (current version)

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

#### ICAO

- Stop bar

### 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
- At-a-Glance top cover identification to quickly differentiate runway fixtures from taxiway fixtures to minimize installation errors
- LEDs 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 ( $\leq 6.35$  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
- 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

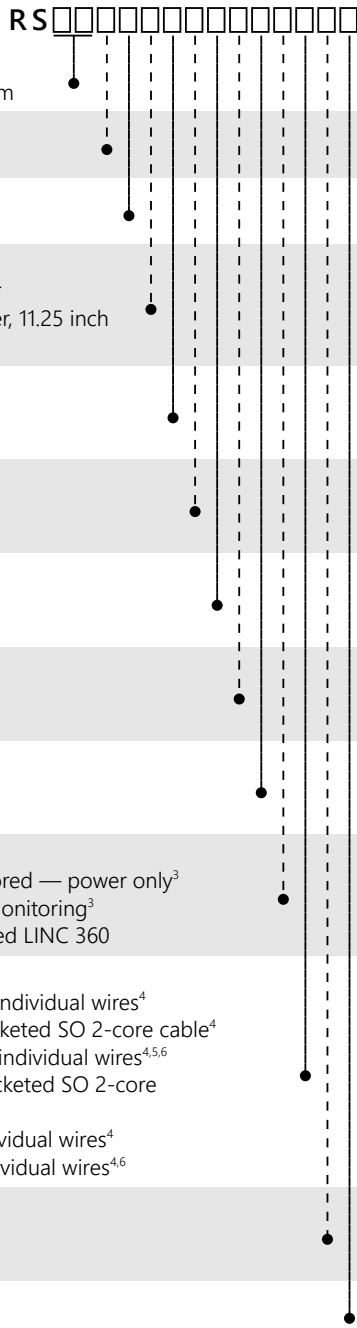
- Improved mechanical design to strengthen and consolidate components, improving the customer maintenance experience
- Fail-open option for compatibility with legacy monitoring systems and optimization of advanced control/ monitoring systems
- Failed-LED Detection as required by Engineering Brief 67D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

### Power Supply

Available in the following configurations:

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

## Ordering Code



### Application

SB = ICAO Stop Bar wide beam

### Standards

3 = ICAO<sup>1</sup>

### Market-specific

0 = None

### Dimensions

1 = 8 inch (203 mm) diameter  
 2 = 12 inch (305 mm) diameter, 11.25 inch BC (285 mm)

### Prism

S = Standard prism  
 R = Reinforced prism

### Beam Orientation

1 = Unidirectional  
 2 = Bidirectional

### Toe-in

N = None  
 C = Curved

### Color – Side 1 (Left)

R = Red  
 N = None<sup>2</sup>

### Color – Side 2 (Right)

R = Red  
 N = None

### Power and Monitoring

S = 2.8 A – 6.6 A, non-monitored — power only<sup>3</sup>  
 M = 2.8 A – 6.6 A, Fail-open monitoring<sup>3</sup>  
 R = 2.8 A – 6.6 A, EQ integrated LINC 360

### Cable and connector

1 = 1 x Style 6 2-pole plug, 2 individual wires<sup>4</sup>  
 2 = 1 x Style 1 2-pole plug, jacketed SO 2-core cable<sup>4</sup>  
 3 = 2 x Style 6 2-pole plug, 2 individual wires<sup>4,5,6</sup>  
 4 = 2 x Style 1 2-pole plug, jacketed SO 2-core cable<sup>4,5,6</sup>  
 5 = 1 x flat 3-pole plug, 3 individual wires<sup>4</sup>  
 6 = 2 x flat 3-pole plug, 3 individual wires<sup>4,6</sup>

### Options

0 = None  
 1 = Arctic kit

### Version

1 = Version 1

## Ordering Code Notes

Light fixtures with internal remote allows for control and monitoring of the light fixture. Light fixtures with internal remotes are only available as 1-connector option.

<sup>1</sup> Includes standards NATO, EASA, STAC, and MOS 139.

<sup>2</sup> Curved application only

<sup>3</sup> 2-Cord set option available for bidirectional fixtures (not EQ)

<sup>4</sup> 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.

<sup>5</sup> Only available in Digit 13 options S and M and bi-directional configuration.

<sup>6</sup> Not valid option for unidirectional

## Maintenance and Installation

The light fixture can be installed on an 8- or 12-inch base. Gaskets are sold separately. Check what gasket and bolts to order depending on base and installation.

**Note:** Refer to user manual of the 8-inch or 12-inch Taxiway centerline lights and to 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

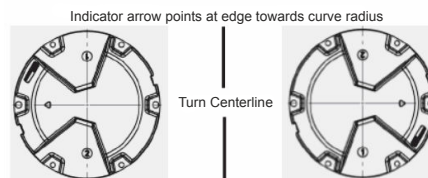
**Operating humidity** Up to 100 %

## Dimensions and Weight

**Dimensions** 203 mm (8 in) 305 mm (12 in)

**Weight** 3.0 kg / 6.6 lb (8 in) 6.8 kg / 15 lb (12 in)

## Toe-in Color Coding for ICAO Stop Bar



Left and right side determined by viewing fixture from interior turn radius pavement edge. Side 1 is on your left, side 2 is on your right

**ANNEX**

**8-inch and 12-inch light fixtures without Arctic Kit**

Fixture type – 1 cord set <sup>1</sup>	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Stop Bar, unidirectional	17.5 VA	25 W	9.8 VA	27.3 VA

**Notes**

<sup>1</sup> Values provided are for the "S" option non-monitored power only.

**Note:**

- See user manual UM-5056 for other power supplies.
- 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. Transformers can be safely overloaded by 10 %.
  - Legacy BRITE II or AGLAS 2 systems — Order "M" power supply
- For fail-open fixtures:
  - The maximum dimension for the isolation transformer is 200 W
- Additional voltage loss when longer secondary cables are used is not included in above table; these additional losses may result in a larger size isolation transformer requirement and must be factored into the circuit load calculation
- Additional voltage loss in primary cable is not included in above table; this additional loss will result in a higher CCR load and must be factored into the circuit load calculation
- Efficiency of the isolation transformer depends on the manufacturer of the transformer

*For more information about the product, including manuals and certifications, please see the Product Center on our website: [www.adbsafegate.com](http://www.adbsafegate.com).*