# AXON

LED Stop Bar ICAO Unidirectional Inset 8-inch and 12-inch



## 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 or 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 (≤ 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 1.2/50µS – 8/20 µS 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



# **AXON**

Ordering Code	R S <u>O O O O O O O O O O</u> O O O O	ŌÖÖ	<sup>1</sup> Includes standards NA	ro, EASA, STAC, and I	MOS 139.
Application			<sup>2</sup> Curved application onl	ly.	
SB = ICAO Stop Bar wide	beam i i i i i	i	<sup>3</sup> EQ light fixtures are on	nly available as a one-	connector option.
<b>Standards</b> 3 = ICAO <sup>1</sup>	Ⅰ 1 1 1 1 1 ● 1 1 1 1 1 1 Ⅰ 1 1 1 1 1		<sup>4</sup> All Style 1 corded fixtur 3-pole corded fixtures w		
<b>Market-specific</b> 0 = None	• :   :   :   :		<sup>5</sup> SO cord set option is n please contact ADB Safe		nallow bases. If required
<b>Dimensions</b> 1 = 8 inch (203 mm) diam	<u> </u>		<sup>6</sup> Thermostatically contro	olled and compliant w	vith FAA EB67D.
2 = 12 inch (305 mm) dia BC (285 mm)	meter, 11.25 inch		Maintenance and	Installation	
<b>Prism</b> S = Standard prism R = Reinforced prism	•		The light fixture can be i sold separately. Check w base and installation.	hat gasket and bolts	to order depending on
<b>Beam Orientation</b> 1 = Unidirectional 2 = Bidirectional	●		Note: Refer to user man lights and to the interop specific base.		,
<b>Toe-in</b> N= None C= Curved			Operating Condition		
Color – Side 1 (Left)			Operating temperature		/ -76 °F to +131 °F
R = Red			Storage temperature		/ -76 °F to +176 °F
N= None <sup>2</sup>			Operating humidity	Up to 100 %	
Color – Side 2 (Right) R = Red N= None			Dimensions and W	/eight	
Power and Monitoring			Dimensions	203 mm (8 in)	305 mm (12 in)
S = 2.8 A - 6.6 A, non-mo M= 2.8 A - 6.6 A, Fail-ope R = 2.8 A - 6.6 A, EQ inter	en monitoring		5	3.0 kg / 6.6 lb (8 in)	6.8 kg / 15 lb (12 in)
Cable and connector <sup>4</sup>	-		Toe-in Color Codir	ig for ICAO Stop	Bar
3 = 2 x Style 6 2-pole plu	g, jacketed SO 2-core cable⁵ g, 2 individual wires g, jacketed SO 2-core cable⁵ individual wires	•	Rit	edge towards curve radius	
<b>Options</b> 0 = None 1 = Arctic kit <sup>6</sup>		•	Left and right side deter	mined by viewing fixt	

## Version

1 = Version 1

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
Stop Bar, bidirectional	24 VA	25 W	9.8 VA	33.8 VA

Notes

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

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#### 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.

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