# **AXON**

L-852S(L) LED Stop Bar

Unidirectional Inset 8-inch and 12-inch



### Compliance with Standards (current version)

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

ETL certified

UFC 3-535-01

### Uses

### FAA and UFC

L-852S(L) Stop bar

### **Features and Benefits**

### Efficiency

- EQ has an internal 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
- 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

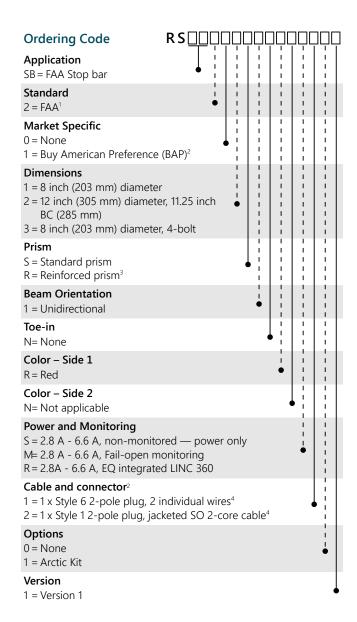
- Improved mechanical design to strengthen and consolidate components, improving the customer maintenance experience
- Fail-open option for compatibility with legacy monitoring systems and optimization of advanced control/ monitoring systems
- Failed-LED Detection as required by Engineering Brief 67D
- 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  $1.2/50\mu$ 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 Options**

- Non-Monitored Power only
- Monitored integrated Fail-open technology
- EQ with integrated ILCMS with OFDM technology for use with LINC 360 system.



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### **Ordering Code Notes**

- <sup>1</sup> Includes TP-312
- <sup>2</sup> Required for FAA when using AIP funds.
- <sup>3</sup> Not ETL submitted
- <sup>4</sup> All Style 1 corded fixtures will include a ground lug. All Style 6 corded fixtures will be provided without a ground lug UNLESS "Market Specific" is option 1 "BAP".

#### Maintenance and Installation

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

Refer to user manual UM-5056 for the 8-inch or 12-inch lights and to the interoperability information for installation on a specific base.

## **Operating Conditions**

Operating temperature  $-60 \, ^{\circ}\text{C}$  to  $+55 \, ^{\circ}\text{C}$  /  $-76 \, ^{\circ}\text{F}$  to  $+131 \, ^{\circ}\text{F}$  Storage temperature  $-60 \, ^{\circ}\text{C}$  to  $+80 \, ^{\circ}\text{C}$  /  $-76 \, ^{\circ}\text{F}$  to  $+176 \, ^{\circ}\text{F}$ 

**Humidity** Up to 100%

### **Dimensions and Weight**

 Dimensions
 203 mm / 8 in
 305 mm / 12 in

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



### **ANNEX**

### 8-inch and 12-inch light fixtures without Arctic Kit (heater)

Fixture type – 1 cord set <sup>1</sup>	Fixture load	Isolation transformer		CCR load
		Wattage	Load	CCN load
Stop bar, L-852S(L), unidirectional, red	17.5 VA	25 W	9.8 VA	27.3 VA

#### Notes

### 8-inch and 12-inch light fixtures with Arctic Kit (heater)

Fixture type – 1 cord set <sup>1</sup>	Fixture load	Isolation transformer		CCR load
		Wattage	Load	CCK loau
Stop bar, L-852S(L), unidirectional	49.5 VA	45 W	14 VA	63.5 VA

#### Notes

### Note:

- See user manual UM-5056 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 65 W on fixture with arctic kit to assure additional 8 VA coverage. Transformers can be safely overloaded by 10 %.
  - Legacy BRITE II or AGLAS 2 systems Order "M" power supply
- · Fail-open fixtures:
  - The maximum rating 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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<sup>&</sup>lt;sup>1</sup> Values provided are for the "S" option non-monitored power only.

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