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 R S O O O O O O O O O O O O O O O O O O
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Standard I I I I I I $2 = FAA^1$ \bullet I I I I I
Market Specific I
Dimensions 1
Prism1111S = Standard prismIIIIR = Reinforced prism ⁵ III <tdi< td=""></tdi<>
Beam Orientation 1 1 1 1 1 = Unidirectional I I I I
Toe-in 1
Color – Side 1 1 1 1 R = Red I I I I
Color – Side 2 N= Not applicable
Power and Monitoring S = 2.8 A - 6.6 A, non-monitored — power only M= 2.8 A - 6.6 A, Fail-open monitoring R = 2.8A - 6.6 A, EQ integrated LINC 360
Cable and connector ³ 1 = 1 x Style 6 2-pole plug, 2 individual wires 2 = 1 x Style 1 2-pole plug, jacketed SO 2-core cable ⁴
Options 0 = None 1 = Arctic Kit
Version 1 = Version 1

Ordering Code Notes

¹ Includes TP-312.

² Required for FAA when using AIP funds.

³ All Style 1 corded fixtures will include a ground lug. All Style 6 and 3-pole corded fixtures will be provided with grounding screw(s).

 $^{\rm 4}{\rm SO}$ cord set option is not compatible with shallow bases. If required please contact ADB Safegate.

⁵ Not ETL submitted

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 °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	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 ¹	Fixture load	Isolation transformer		CCR load
Tixture type I cold set		Wattage	Load	
Stop bar, L-852S(L), unidirectional, red	17.5 VA	25 W	9.8 VA	27.3 VA

Notes

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

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

Fixture type – 1 cord set ¹	Fixture load	Isolation transformer		CCR load
Tixture type – I cold set		Wattage	Load	
Stop bar, L-852S(L), unidirectional	49.5 VA	45 W	14 VA	63.5 VA

Notes

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

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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