# **AXON**

Runway Status L-850T(L), Takeoff/Hold, Runway Intersection (THL/RIL) and Runway Entry Light (REL) Inset 8-inch and 12-inch



## Compliance with Standards (current version)

FAA

**L-850T(L):** AC 150/5345-46 and FAA Engineering Brief No. 67. Complies with FAA Runway Status Light System Take-off Hold Light (THL) and Runway Intersection Light (RIL) requirements in FAA AC 150/5340-30 Appendix G and FAA Engineering Brief 64

L-852S(L): AC 150/5345-46 and FAA Engineering Brief No. 67. Complies with FAA Runway Status Light System Runway Entry Light (REL) requirements in FAA AC 150/5340-30 Appendix G and FAA Engineering Brief No. 64.

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#### Uses

### FAA Runway Status Light (RWSL) Applications

- L-850T(L) THL Runway Takeoff/Hold Light
- L-850T(L) RIL Runway Intersection Light
- REL Runway Entry Light

#### **Features and Benefits**

### Efficiency

- EQ has an integrated ILCMS remote for use with the LINC 360 integrated ILCMS 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 supply.
- 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

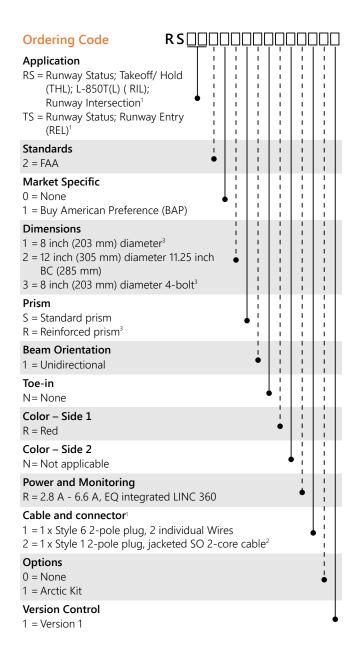
- Improved mechanical design to strengthen and consolidate components, improving the customer maintenance experience
- Failed-LED Detection as required by Engineering Brief 67D
- Robust lightning protection complying with ANSI/IEEE C62.41-1991;
   Location Category C2 as required by FAA Eng. Brief 67. 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**

 EQ with integrated ILCMS with OFDM technology for use with LINC 360 system



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## **Ordering Code Notes**

<sup>1</sup> 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).

<sup>2</sup>SO cord set option is not compatible with shallow bases. If required please contact ADB Safegate.

### Maintenance and Installation

The light fixture can be installed on an 8-inch or 12-inch base.

Note: Refer to user manual UM-5055 for "RS" and UM-5056 for "TS" lights.

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



<sup>&</sup>lt;sup>3</sup> Not ETL submitted

### **ANNEX**

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

Fixture type – 1 cord set	Fixture load	Isolation transformer		CCR load
		Wattage	Load	CCK load
L-850T(L) THL/RIL Takeoff Hold Light	16.5 VA	25 W	10 VA	26.5 VA
REL Runway Entry Light	17.5 VA	25 W	9.8 VA	27.3 VA

### 8- and 12-inch light fixtures with Arctic Kit

Fixture type – 1 cord set	Fixture load	Isolation transformer		CCR load
		Wattage	Load	CCK loau
L-850T(L) THL/RIL Takeoff Hold Light	48.5 VA	65 W	14 VA	62.5 VA
REL Runway Entry Light	49.5 VA	65 W	14 VA	63.5 VA

### 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 more information about the product, including manuals and certifications, please see the Product Center on the ADB SAFEGATE website: www.adbsafegate.com.

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