

# AXON

## LED ICAO Approach Centerline, Crossbar and Siderow Unidirectional Inset 12-inch



### Compliance with Standards (current version)

|                  |                       |
|------------------|-----------------------|
| <b>ICAO</b>      | Annex 14 Volume 1     |
| <b>EASA</b>      | CS-ADR-DSN            |
| <b>IEC</b>       | 61827                 |
| <b>NATO</b>      | STANAG 3316           |
| <b>STAC</b>      | PRO/STAC/SE/ENIS/600S |
| <b>Canada</b>    | TP 312                |
| <b>Australia</b> | MOS 139               |

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### Uses

#### ICAO

- Approach centerline
- Approach crossbar
- Approach siderow

### 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
- LED 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

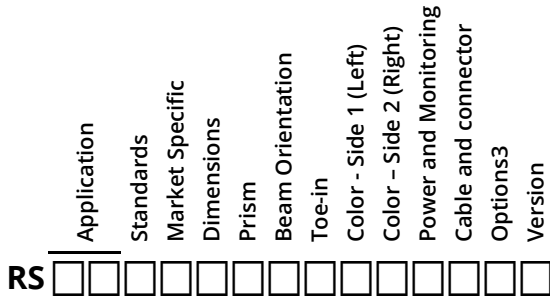
### Sustainability

- 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 and 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

## Ordering Code



### Application

AC = Approach Centerline / Crossbar  
AS = Approach Siderow  
SF = Approach Siderow Flash

### Standards

3 = ICAO<sup>1</sup>

### Market Specific

0 = None  
3 = U.S. Military  
4 = German MIL 7-step FO

### Dimensions

2 = 12 inch (304 mm) Diameter

### Prism

S = Standard prism  
R = Reinforced prism

### Beam Orientation

1 = Unidirectional

### Toe-in

N = None  
L = Left  
R = Right

### Color - Side 1 (Left)

R = Red (AS)  
W = White (AC)

### Color - Side 2 (Right)

N = None

### 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 = 2.8 A - 6.6 A, ILCMS integrated OFDM EQ

### Cable and connector

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

### Options<sup>3</sup>

0 = None

### Version

1 = Version 1

## Ordering Code Notes

- Option 3 covers standards: NATO, EASA, STAC, TP-312, MOS 139.
- 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 UNLESS digit 6 is option 1 "BAP".
- This application meets the heat rise requirements in Engineering Brief 67D, section 2.13.1, "Arctic Kit Testing Requirements" WITHOUT an arctic kit. We do not offer an arctic kit with this configuration as the additional heat would be detrimental to the life of the LEDs.

## 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

## Maintenance and Installation

The light fixture can be installed on a 12-inch base. Gaskets are sold separately. Check what gasket and bolts to order depending on base and installation. Refer to the interoperability section of the user manual for installation on a specific base.

## Operating Conditions

|                              |                                      |
|------------------------------|--------------------------------------|
| <b>Operating temperature</b> | -60 °C to +55 °C / -76 °F to +131 °F |
| <b>Storage temperature</b>   | -60 °C to +80 °C / -76 °F to +176 °F |
| <b>Humidity</b>              | Up to 100%                           |

## Dimensions and Weight

|                   |                        |
|-------------------|------------------------|
| <b>Dimensions</b> | 304 mm (12 in)         |
| <b>Weight</b>     | 6.8 kg / 15 lb (12 in) |

## ANNEX

### 12-inch light fixtures without Arctic Kit

| Fixture type - 1 cord set <sup>1</sup> | Fixture load | Isolation transformer |       | CCR load |
|--|--------------|-----------------------|-------|----------|
|  |              | Wattage               | Load  |          |
| Approach Centerline                    | 60 VA        | 65 W                  | 15 VA | 75 VA    |
| Crossbar                               | 60 VA        | 65 W                  | 15 VA | 75 VA    |
| Approach Siderow                       | 42 VA        | 45 W                  | 12 VA | 54 VA    |

**Note:** Values provided are for the "S" option non-monitored power only.

**Note:**

- 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
  - Legacy BRITE II or AGLAS 2 systems — Order "M" power supply
- Fail-open fixtures:
  - The maximum rating for the isolation transformer is 150 W
- Additional voltage loss not included in the above table which must be factored into the circuit load calculation:
  - Primary cables will result in a higher CCR load
  - Longer secondary cables may result in a larger size isolation transformer requirement
- Efficiency of the isolation transformer depends on the manufacturer of the transformer
- See high intensity approach user manual UM-5057 for other power supplies

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