

AXON

LED Runway Threshold Wingbar, Unidirectional Inset 12-inch



Compliance with Standards (current version)

ICAO	Annex 14 Volume 1
IEC	61827
EASA	CS-ADR-DSN
NATO	STANAG 3316
STAC	PRO/STAC/SE/VIS
Canada	TP 312
CE	

Uses

ICAO

- Runway Threshold Wingbar

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
- 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

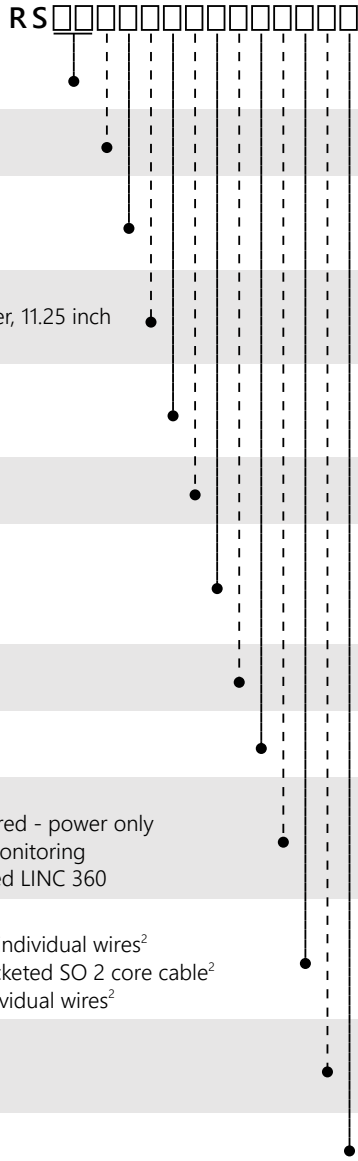
Safety

- 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 $1.2/50\mu\text{s} - 8/20 \mu\text{s}$ combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

Power Supply

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

Ordering Code



Application

RW= Runway Wingbar

Standards

3 = ICAO¹

Market Specific

0 = None

4 = German MIL 7-step FO

Dimensions

2 = 12 inch (304 mm) diameter, 11.25 inch BC (285 mm)

Prism

S = Standard prism

R = Reinforced prism

Beam Orientation

1 = Unidirectional

Toe-in

N = None

L = Left

R = Right

Color (Side 1 – Left)

F = F-Green

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 EQ Integrated LINC 360

Cable and Connector

1 = 1 x Style 6 2-pole plug, 2 individual wires²

2 = 1 x Style 1 2-pole plug, jacketed SO 2 core cable²

5 = 1 x flat 3-pole plug, 3 individual wires²

Options

0 = None

1 = Arctic Kit

Version Control

1 = Version 1

Ordering Code Notes

¹Option 3 covers standards: NATO,EASA,STAC,TP-312,MOS 139.

²All Style 1 corded fixtures will include a ground lug. All Style 6 or 3-pole corded fixtures will be provided without a ground lug.

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 user manual UM-5055 for the 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 304 mm (12 in)

Weight 6.8 kg / 15 lb (12 in)

ANNEX

12-inch light fixtures without Arctic Kit (without heater)

Fixture type – 1 cord set	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Wingbar Light Unidirectional	35 VA	45 W	10 VA	45 VA

Note:

- See manual UM-5055 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
- 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.