AXON

LED ICAO Runway Threshold, END, Threshold/End

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/End
- Runway Threshold
- Runway End

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 1.2/50µS – 8/20 µS 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

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Ordering Code

RS□□□□□□□□□□□□□□□

Application
RN= Runway End
RT = Runway Threshold,Threshold / End

Standards
3 = ICAO[1]

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
2 = Bidirectional

Toe-in
N= None [2,3]
L = Left[3,4]
R = Right

Color (Side 1 – Left)
F = F-Green
R = Red

Color (Side 2 – Right)
R = Red
N= None

Power and Monitoring
S = 2.8 A - 6.6 A non-monitored - power only[5]
M= 2.8 A - 6.6 A Fail-Open monitoring[5]
R = 2.8 A - 6.6 A EQ integrated LINC 360

Cable and Connector
1 = 1 x Style 6 2-pole plug, 2 individual wire[6]
2 = 1 x Style 1 2-pole plug, jacketed SO 2 core cable[6]
3 = 2 x Style 6 2-pole plug, 2 individual wires[6]
4 = 2 x Style 1 2-pole plug, jacketed SO 2 core cable[6]
5 = 1 x flat 3-pole plug, 3 individual wires[6]
6 = 2 x flat 3-pole plug, 3 individual wires[6]

Options
0 = None
1 = Arctic Kit

Version Control
1 = Version 1

Ordering Code Notes

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

[2]L and R designations are always in relationship to Side 1 only.

[3]RN must be N.

[4]RT Green/red only - always toed.

[5]2-cordset option available.

[6]All Style 1 corded fixtures will include a ground lug. All Style 6 or 3-pole corded fixtures will be provided with a grounding screw.

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.

Note: Refer to high intensity user manual for the 8-inch or 12-inch lights and to the interoperability information for installation on a specific base.

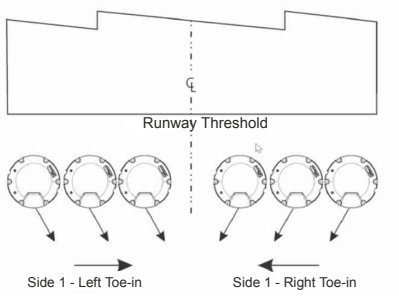
Operating Conditions

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	304 mm (12 in)
Weight	6.8 kg / 15 lb (12 in)

Toe-in Coding RT



ANNEX

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

Fixture type – 1 cord set [1]	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Threshold/End	43 VA	45 W	12 VA	55 VA
End/End	32 VA	45 W	9 VA	41 VA
Threshold	32 VA	45 W	9 VA	41 VA
End	19 VA	25 W	6 VA	25 VA

Notes

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

Note:

- See high intensity user manual for other power supplies.
- EQ fixtures:
  - The isolation transformer must have an additional 8 VA available above the fixture load for communication bandwidth. Please Transformers can be safely overloaded by 10 %.
  - Legacy BRITE II or AGLAS 2 systems — Order "M" power supply
- For 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.