AXON EQ

ICAO Runway Threshold, Threshold/End and Runway End

LED Elevated Uni & Bi-Directional

ADB SAFEGATE AXONEQ

Compliance with Standards (current version)

ICAO	Annex 14, Volume 1
NATO	STANAG 3316
IEC	61827
EASA	CS-ADR-DSN
STAC	PRO/STAC/SE/ENIS/600S
UK	CAP 168
Canada	TP 312
Australia	MOS 139

CE

Uses

ICAO

- Runway Threshold
- Runway Threshold Wingbar
- Runway Threshold / End
- Runway End

Features and Benefits

Efficiency

- AXON EQ features ILCMS remote and onboard environmental sensors for the LINC 360 system, enabling high data capacity and radio degradation resistance. This results in top-notch communication platform for control, status, and health/usage monitoring.
- AXON EQ can be upgraded with plug-in modules and configured via LINC 360 or CORTEX CLOUD for additional features.
- AXON EQ version available with optional Cellular monitoring module.
- Infra Red for EFVS / NVG compatibility. Highly configurable to suit operational requirement.
- LED is PWM-modulated at 400 Hz to optimize performance and eliminate human flicker perception, regardless of brightness levels.
- Lights are fully dimmable and conform to FAA EB 67D and ICAO Annex 14 dimming curve
- Dedicated aiming device allows easy leveling and azimuth aiming of the light.
- Three screws allow for 4° leveling adjustment of the fixture after installation.

Sustainability

- Independent Product Carbon Footprint calculation to support in product lifecycle analysis.
- Modular housing maximizes parts commonality and enables midlife upgrades for enhanced functionality instead of requiring a new product.
- Options for either glass or UV-resistant polycarbonate outer lens.
- A single fixture family covers all elevated approach, runway and stop bar applications.
- IP68 & IP69K rated enclosure designed for harsh environments; all fastenings are stainless steel.
- This product is a direct replacement for ADB Safegate LED elevated fixtures, thanks to its mechanical and photometric backwards compatibility.
- Finishing: Stainless steel hardware, aluminum body, phosphated aviation yellow electrostatic polyester powder coating.
- Based on the LED manufacturer's ratings & calculations, we guarantee a LED life expectancy L70 higher than 50,000 operation hours.
- Aerodynamic and lightweight weight designed to withstand heaviest jet blast.

Safety

- Identifiable daytime recognition, with large surface area coloured optical module surround.
- Modular mechanical design consolidates and strengthens product components for faster, easier maintenance and reconfiguration.
- SMART Arctic kit with option of heater output down to 4.1A.
- Failed-LED Detection as required by Engineering Brief 67D.
- The product meets the lightning protection criteria of ANSI/ IEEE C62.41-1991 and FAA Eng. Brief 67's Location Category C2 requirements, which outlines a 1.2/50 - 8/20 µs combination wave, peaking at 10,000 V and 5,000 A.

AXON EQ

Ordering Code

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Application
RT = Runway Threshold / Threshold End
RN= Runway End
RW= Runway Threshold Wingbar

Standards
3 = ICAO

Market Specific
0 = None
4 = German MIL 7-step FO

Lens Type
S = Glass
L = UV Resistant Polycarbonate

Cable & Connector
2 = 1 x Style 6 2-Pole Plug [1]
4 = 1 x Style 1 2-Pole Plug [2]

Color - Side 1 Left
R = Red
F = F-Green

Color - Side 2 Right
R = Red
N= None(obscured)

Toe-In
N= No Toe-In
L = Left Toe-In
R = Right Toe-In

Fixture Height
0 = No Mounting – light head only
1 = <350mm NO COUPLING
2 = 14" OAH NO COUPLING
3 = 20" OAH NO COUPLING
4 = 24" OAH NO COUPLING
5 = 30" OAH NO COUPLING

Power Supply
R = Current Driven 50/60Hz Linc360 / EQ Sensors & Advanced Connectivity Ready

Options
0 = None
2 = Smart Arctic Kit
3 = Near Infra Red
5 = with Smart Arctic Kit & Near Infra Red

Advanced Connectivity = 0

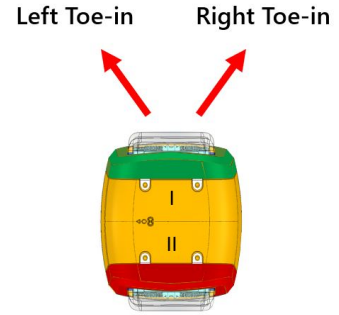
Omni Directional
0 = No Circling Guidance

Version Control = 1

[1] 2 Individual Wires with Separate Earth

[2] Jacketed SO 2 Core Cable with Separate Earth

Toe-in Coding



Toe-in determined by standing on top of the light fixture looking in the direction of the Threshold beam.

Power Supply

- AXON EQ with integrated ILCMS with OFDM technology for use with LINC 360 system
- AXON EQ Optional Cellular monitoring, future upgradable and feature configurable

Maintenance and Installation

The light is made of an aluminum body, with mounting stem and frangible coupling,with three screws to allow for 4° leveling adjustment of the fixture after installation.

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	TBC	TBC
Weight	Min 2.7 kg / 6 lb (8 in)	TBC

ANNEX

ICAO Runway Threshold, Threshold/End, Wingbar, End Without Arctic Kit (Heater)

Fixture type	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Runway Threshold	19 VA			
Runway Threshold / Threshold End	24 VA			
Runway Threshold Wingbar	20 VA			
Runway End	18 VA			

Additional Overhead VA per Function

Fixture type	Additional fixture VA
SMART Arctic Kit	5 VA
Infra Red	1.5 VA
Cellular Module	5 VA (4G/5G wireless module)

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