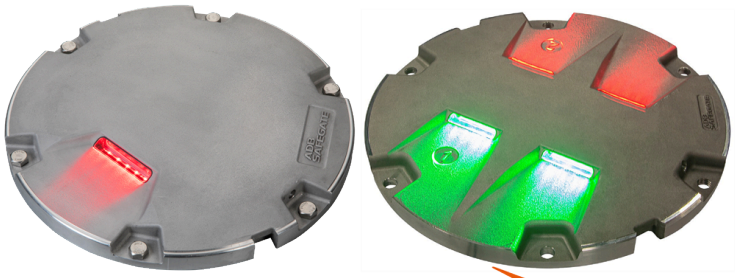
AXON

LED ICAO Runway Threshold, Threshold/End and End

Uni and Bidirectional Inset, 12-inch



ADB SAFEGATE
AXON

Compliance with Standards

ICAO	Annex 14, Volume 1
IEC	61827
NATO	STANAG 3316
EASA	CS-ADR-DSN
STAC	SPE/STAC/SE/E/VIS/6008
Canada	TP 312

CE

Uses

ICAO

- Runway threshold
- Runway end
- Runway threshold/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 of 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 (≤ 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 (directional beams only)
- 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 Engineering Brief 67 Category C2 is defined as a 1.2/50 µS – 8/20 µS combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

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Ordering Code

	Application	Standard(s)	Market Specific	Dimensions	Prism	Beam Orientation	Toe-in	Color - Side 1 (Left)	Color - Side 2 (Right)	Power and Monitoring	Connector and Cable6	Options	Version
RS	□	□	□	□	□	□	□	□	□	□	□	□	□

Application
RN = Runway End[8]
RT = Runway threshold/end

Standard(s)
3 = ICAO[1]

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

Dimensions
2 = 12 inch (305 mm) diameter, 11.25 inch BC (285 mm)

Prism
S = Standard prism
R = Reinforced prism

Beam Orientation
1 = Unidirectional
2 = Bidirectional

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

Color - Side 1 (Left)
R = Red
F = F-Green (ICAO,default green)

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

Power and Monitoring
S = 2.8 - 6.6 A, Non-Monitored — Power Only[5]
M = 2.8 - 6.6 A, Fail-Open Monitoring[5]
R = 2.8 - 6.6 A, EQ Integrated LINC 360

Connector and Cable[6]
1 = 1 x Style 6 2-Pole Plug, 2 Individual Wires
2 = 1 x Style 1 2-Pole Plug, Jacketed SO 2 Core Cable
3 = 2 x Style 6 2-Pole Plug, 2 Individual Wires
4 = 2 x Style 1 2-Pole Plug, Jacketed SO 2 Core Cable
5 = 1 x Flat 3-Pole Plug, 3 Individual Wires
6 = 2 x Flat 3-Pole Plug, 3 Individual Wires

Options
0 = None
1 = Arctic Kit[7]

Version
1 = Version 1

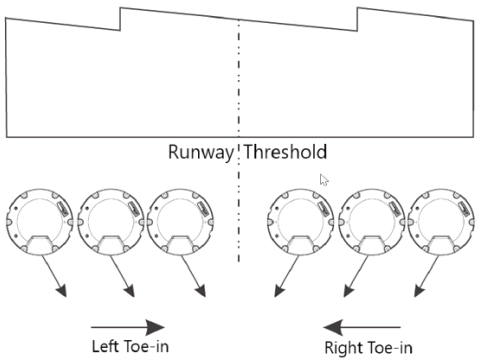
Ordering Code Notes

1. Includes standards NATO, EASA, STAC, TP 312 and 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 grounding screw(s).
7. Only with RN (RT meets EB67d Arctic kit requirements on its own)
8. See runway UM-5055 for spare parts

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

Toe-in Coding RT



Installation and Maintenance

The light fixture can be installed in a 12-inch base. Gaskets are sold separately. Refer to the user manual INTEROPERABILITY appendix to identify the correct gasket and bolts for your specific base and ensure a reliable fit.

Operating Conditions

Operating temperature	-55 °C to +55 °C / -67 °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 (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	32VA	45 W	9 VA	41 VA
End	19 VA	25 W	6 VA	25 VA

[1]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 (a correctly calibrated CCR is important to achieve an accurate fail open response)
- 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 user manual for cable loss formula and 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.

Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.