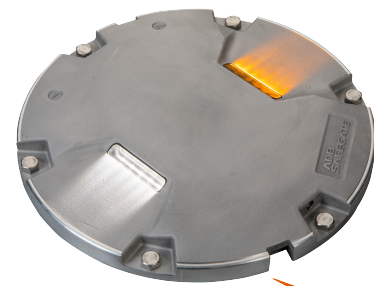


AXON

LED Runway Edge, 60 m Width Uni- and Bidirectional Inset 12-inch



ADB SAFEGATE
AXON

Compliance with Standards (current version)

ICAO	Annex 14, Volume 1
IEC	61827
NATO	STANAG 3316
EASA	CS-ADR-DSN
STAC	PRO/STAC/SE/VIS
Canada	TP 312
Australia	MOS 139
China	CAAC
CE	

Uses

ICAO

- Runway edge

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 (≤ 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 μ S – 8/20 μ S combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

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

Ordering Code

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

Application

R6 = Runway Edge 60m

Standard

3 = ICAO¹

Market Specific

0 = None

4 = German MIL 7-step

Dimensions

2 = 12 inch (304 mm) diameter

Prism

S = Standard Prism

R = Reinforced Prism

Beam Orientation

1 = Unidirectional

2 = Bidirectional

Toe-in

L = Left Side Toe-in (unidirectional)²

R = Right Side Toe-in (unidirectional)²

C = Both Sides Toe-in (bidirectional)

Color - Side 1 (Left)

W = White³

Y = Yellow³

R = Red

Color - Side 2 (Right)

W = White³

Y = Yellow³

R = Red

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

3 = 2 x Style 6 2-pole plug, 2 individual wires²

4 = 2 x Style 1 2-pole plug, jacketed SO 2-core cable²

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

6 = 2 x flat 3-pole plug, 3 individual wires²

Options

0 = None

1 = Arctic Kit

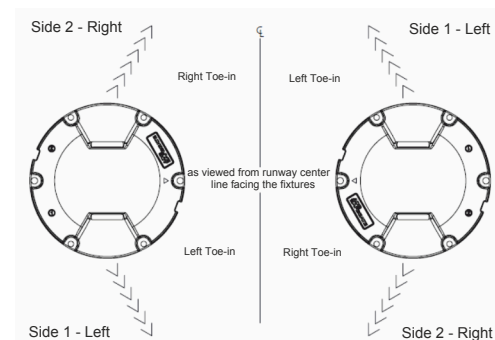
Version

1 = Version 1

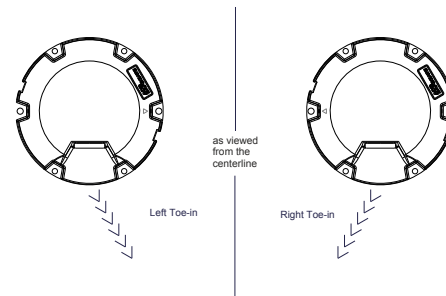
Ordering Code Notes

1. Includes standards NATO, EASA, STAC, CAP 168, TP 312 and MOS 139.
2. 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).
3. RE white/white and white/yellow applications meet 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.

Defining left and right side for color placement



Defining toe direction for unidirectional applications



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

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 (heater)

Fixture type - 1 cord set ¹	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Runway Edge, bidirectional, White/White	61 VA	65 W	13 VA	74 VA
Runway Edge, unidirectional, White	30 VA	45 W	10 VA	40 VA

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

12-inch light fixtures with Arctic Kit (heater)

Fixture Types - 1 cord set ¹	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Runway Edge, bidirectional, White/Red	72 VA	65 W	15 VA	87 VA
Runway Edge, unidirectional, Red	40 VA	45 W	10 VA	50 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 runway user manual UM-5055 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.