

AXON

LED Apron Maneuvering Guidance Omnidirectional Inset, 8-inch



ADB SAFEGATE
AXON

Compliance with Standards (current versions)

ICAO	Annex 14, Volume 1
IEC	61827
EASA	CS-ADR-DSN
Canada	TP 312
Australia	MOS 139
CE	

Uses

The AXON 8-inch omnidirectional low-protrusion protected inset LED light fixture This fixture can be used in the following applications:

ICAO

- Aircraft Stand Maneuvering Guidance

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
- One single family of fixtures covering all runway, taxiway and approach applications
- IP68 rated enclosure designed for harsh environments; all fastenings are stainless steel
- 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

Ordering Code

	Application	Standard	Market-Specific	Dimensions	Prism	Beam Orientation	Toe-in	Color - Side 1 (Left)	Color - Side 2 (Right)	Power and Monitoring	Connector and Cable	Options	Version
RS	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Application

AM = Apron Stand Maneuvering Guidance

Standard

3 = ICAO

Market-Specific

0 = None

Dimensions

1 = 8 inch

Prism

P = 4 protected prisms

Beam Orientation

3 = Omnidirectional

Toe-in

N = Not applicable

Color - Side 1 (Left)

R = Red

Y = Yellow

Color - Side 2 (Right)

N = Not applicable

Power and Monitoring

S = 2.8 - 6.6 A, non-Monitored - power only

M = 2.8 - 6.6 A, Fail-Open monitoring

R = 2.8 A - 6.6 A, ILCMS integrated OFDM EQ

Connector and Cable

1 = 1 x Style 6 2-pin plug, 2 individual wires

5 = 1 x flat 3-pin plug, 3 individual wires ¹

Options

0 = None

Version

2 = Second edition

Ordering Code Notes

1. French 3-pin plug (1F).

Note: Deep base and / or adapter rings to be ordered separately

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

Maintenance and Installation

The light fixture can be installed on an 8-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.

Accessories

Refer to the user manual UM-5091 for 8 inch protected inset lights.

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 203 mm (8 in)
Weight 2.8 kg / 6.1 lb (8 in)

ANNEX

8-inch and 12-inch light fixtures

Fixture type – 1 cord set ¹	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
RS - AM (omnidirectional, inset)	35 VA	45 W	9 VA	44 VA

Note: ¹Values 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 omni user manual UM-5091 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.