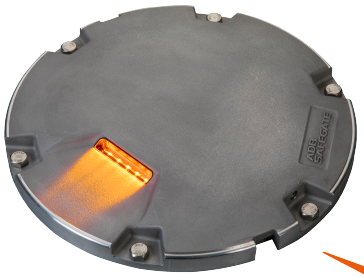
AXON

LED RETIL

Unidirectional Inset 8-inch and 12-inch



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Compliance with Standards (current Version)

ICAO	Annex 14, Volume 1
NATO	STANAG 3316
IEC	61827
Canada	TP 312
Australia	MOS 139

CE

Uses

ICAO

- Rapid Exit Taxiway Indicator Light (RETIL)

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
- 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 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	Standards	Market Specific	Dimensions	Prism	Beam Orientation	Toe-in	Color - Side 1 (Left)	Color - Side 2 (Right)	Power and Monitoring	Cable and connector2	Options	Version
RS													

Application
RY = Rapid Exit Taxiway Indicator Light (RETIL)

Standards
3 = ICAO[1]

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

Dimensions
1 = 8 inch (203 mm) diameter
2 = 12 inch (305 mm) diameter, 11.25 inch BC (285 mm)

Prism
S = Standard prism
R = Reinforced prism

Beam Orientation
1 = Unidirectional

Toe-in
N = None

Color - Side 1 (Left)
Y = Yellow

Color - Side 2 (Right)
N = Not applicable

Power and Monitoring
M = 2.8 A - 6.6 A Fail-Open monitoring[2]
R = 2.8 A - 6.6 A, EQ Integrated LINC 360

Cable and connector[2]
1 = 1 x Style 6 2-pole plug, 2 individual wires[3]
2 = 1 x Style 1 2-pole plug, jacketed SO 2-core cable[3]
5 = 1 x Flat 3-pole plug, 3 individual wires

Options
0 = None
1 = Arctic Kit

Version
1 = Version 1

Ordering Code Notes

1. Includes standards NATO, EASA, STAC, TP 312 and MOS 139.
2. EQ light fixtures are only available as a one connector option.
3. 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).

Power Supply Options

- 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 or 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	203 mm (8 in)	305 mm (12 in)
Weight	3.0 kg / 6.6 lb (8 in)	6.8 kg / 15 lb (12 in)

ANNEX

8-inch and 12-inch light fixtures without Arctic Kit

Fixture type – 1 cord set[1]	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Rapid Exit Taxiway Indicator Light	25.5 VA	45 W	7.2 VA	32.7 VA

Note: [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
- 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.