AXON

LED Triple Line Taxiway Centerline Light

Uni- and Bidirectional Inset /n8-inch and 12-inch

ADB SAFEGATE AXON

Compliance with Standards (current version)

ICAO Annex 14 Volume 1

IEC 61827

CE

Uses

ICAO

- Triple Line Taxiway Centerline Light

Features and Benefits

Efficiency

- EQ has an internal ILCMS remote with our 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
- LEDs 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/ 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 1.2/50µS – 8/20 µS combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

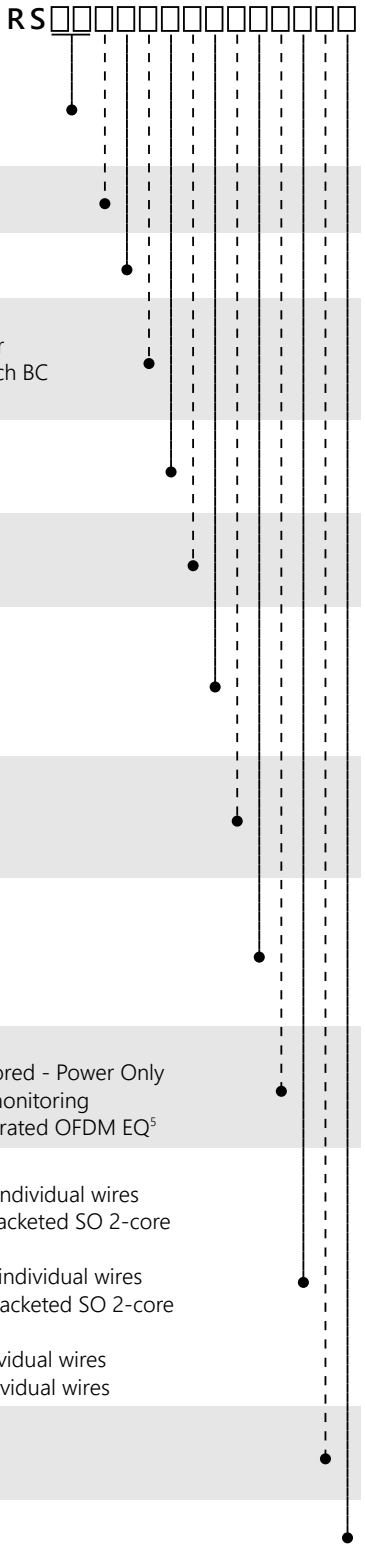
Power Supply

- Non-Monitored — Power only
- Monitored — integrated Fail-open technology
- EQ with integrated ILCMS with OFDM technology for use with LINC 360.

Note: Refer to the user manual UM-5056 and the complete power table and cable loss formula.

Ordering Code

RS□□□□□□□□□□□□□□□



Application
3C = Curved Beam
3N= Narrow Beam
3W= Wide Beam

Standard
4 = Other

Market Specific
0 = None

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

Prism
S = Standard prism
R = Reinforced prism

Beam Orientation
1 = Unidirectional
2 = Bidirectional

Toe-in
N= None[2]
C = Curved[1,3]
L = Left[1,4]
R = Right[1,4]

Colors – Side 1 (Left)
F = F-Green
B = Blue
A = Amber

Colors – Side 2 (Right)
F = F-Green
B = Blue
A = Amber
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, ILCMS integrated OFDM EQ[5]

Cable and Connector[6]
1 = 1 x Style 6 2-pole plug, 2 individual wires
2 = 1 x Style 1 2-pole plug, 2 jacketed SO 2-core cable[7]
3 = 2 x Style 6 2-pole plug, 2 individual wires
4 = 2 x Style 1 2-pole plug, 2 jacketed SO 2-core cable[7]
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

Version Control
1 = Version 1

Ordering Code Notes

[1] L and R designations are always in relationship to Side 1 only.

[2] 3N and 3W applications.

[3] 3C bidirectional application.

[4] 3C unidirectional application.

[5] EQ light fixtures are only available as a one-connector option.

[6] All Style 1 corded fixtures will include a ground lug. All Style 6 and 3-pole corded fixtures will be provided with grounding screw(s).

[7] SO cord set option is not compatible with shallow bases. If required contact ADB Safegate.

Maintenance and Installation

The light fixture can be installed in an 8-inch and 12-inch base. Gaskets are sold separately. Check what gasket and bolts to order depending on base and installation.

Note: Refer to the user manual UM-5056 and the interoperability information for installation in 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 %

Dimension and Weight

Dimension	203 mm / 8 in	304 mm / 12 in
Weight	2.7 kg / 6.0 lb	6.3 kg / 13.9 lb

Annex

8- and 12-inch light fixtures

Fixture type – 1 cord set	Fixture load	Isolation transformer			CCR load
		Rating	Loss	Efficiency	
Triple Line Taxiway Centerline Light	VA				VA

Fixture type – 2 cord set	Fixture load	Isolation transformer			CCR load
		Rating	Loss	Efficiency	
Triple Line Taxiway Centerline Light	+ VA	2 × W	2 × VA		2 × VA

Note:

- EQ fixtures:
  - The isolation transformer must have an additional 8 VA available above the fixture load for communication bandwidth. Size transformer to 65 W on fixture with arctic kit to assure additional 8 VA coverage. Transformers can be safely overloaded by 10 %.
  - Legacy BRITE II or AGLAS 2 systems — Order "M" power supply
- Fail-open fixtures:
  - The maximum rating for the isolation transformer is 200 W
- Additional voltage loss when longer secondary cables are used is not included in above table; these additional losses may result in a larger size isolation transformer requirement and must be factored into the circuit load calculation
- Additional voltage loss in primary cable is not included in above table; this additional loss will result in a higher CCR load and must be factored into the circuit load calculation
- Efficiency of the isolation transformer depends on the manufacturer of the transformer

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