# AXON

LED Stopway , ≤ 45 m Width Unidirectional Inset 12-inch



## Compliance with Standards (current version)

ICAO Annex 14 Volume 1

Australia MOS 139

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## Uses

## ICAO and MOS

• Stopway 45m Wide Runway

## **Features and Benefits**

### Efficiency

- EQ has an integrated ILCMS remote for use with the 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 ( $\leq$  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 1.2/50 $\mu$ S – 8/20  $\mu$ S combination wave, with a peak voltage of 10,000 V and a peak current of 5,000 A

# Power Supply

Available in the following configurations :

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



# AXON

Ordering Code R S O O O O O O O O O O O O O O O O O O
Application SW= Stopway 45 m
<b>Standards</b> 3 = ICAO <sup>1</sup>
Market Specific     I
Dimensions 2 = 12 inch (305 mm) diameter , 11.25 inch BC (285 mm).
Prism I I I I   S = Standard prism I I I I   R = Reinforced prism I I I
Beam Orientation I I I I   1 = Unidirectional I I I I
Toe-inL = LeftR = Right
Color (Side 1 – Left)     1     1     1       R = Red     1     1     1
Color (Side 2 – Right) 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 <sup>2</sup> 1 = 1 x Style 6 2-pole plug, 2 individual wires 2 = 1 x Style 12-pole plug, jacketed SO 2-core cable 5 = 1 x flat 3-pole plug, 3 individual wires
Options 0 = None 1 = Arctic Kit
Version Control 1 = Version 1

## **Ordering Code Notes**

<sup>1</sup> Includes standards NATO, EASA, STAC, TP 312 and MOS 139.

<sup>2</sup> 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).

### 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.

**Note:** Refer to user manual UM-5055 for the 8-inch or 12-inch lights and to the interoperability information 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	305 mm (12 in)		
Weight	6.8 kg / 15 lb (12 in)		





## ANNEX

### 12-inch light fixtures without Arctic Kit (without heater)

Fixture type .	type – 1 cord set	Fixture load	Isolation transformer		CCR load
Tixture type – 1 colu s			Wattage	Load	
Stopway Unic	lirectional	34.9VA	45W	14.2VA	49.1VA

#### Note:

- See user manual UM-5055 for other power supplies.
- 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. Transformers can be safely overloaded by 10 %.
  - Legacy BRITE II or AGLAS 2 systems Order "M" power supply
- For 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.

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