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 (≤ 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

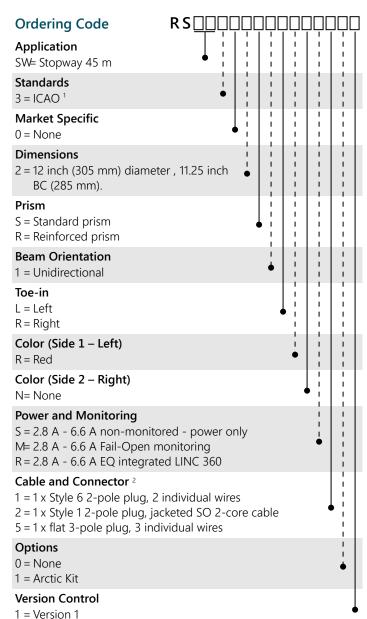
Power Supply

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



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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 $-60 \, ^{\circ}\text{C}$ to $+55 \, ^{\circ}\text{C}$ / $-76 \, ^{\circ}\text{F}$ to $+131 \, ^{\circ}\text{F}$ Storage temperature $-60 \, ^{\circ}\text{C}$ to $+80 \, ^{\circ}\text{C}$ / $-76 \, ^{\circ}\text{F}$ to $+176 \, ^{\circ}\text{F}$

Humidity Up to 100%

Dimensions and Weight

 Dimensions
 305 mm (12 in)

 Weight
 6.8 kg / 15 lb (12 in)

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.



¹ Includes standards NATO, EASA, STAC, 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).

ANNEX

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

Fixture type – 1 cord set	Fixture load	Isolation transformer		CCR load
		Wattage	Load	CCIX IOau
Stopway Unidirectional	34.9VA	45W	14.2VA	49.1VA

Note:

- See user manual UM-5055 for other power supplies.
- · EO 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.

