

# AXON

## Approach Centerline, Siderow LED Elevated, Unidirectional



### Compliance with Standards (current versions)

<b>ICAO</b>	Annex 14, Volume 1
<b>NATO</b>	STANAG 3316
<b>IEC</b>	61827
<b>EASA</b>	CS-ADR-DSN
<b>STAC</b>	PRO/STAC/SE/ENIS/600S
<b>UK</b>	CAP 168
<b>UFC</b>	3-535-01
<b>Canada</b>	TP 312
<b>Australia</b>	MOS 139
<b>CE</b>	
<b>UKCA</b>	

### Uses

#### ICAO

- Approach Centerline & Cross Bar
- Approach Siderow

### Features and Benefits

#### Efficiency

- Option of low intensity omnidirectional approach.
- Infra Red for EFVS / NVG compatibility. Highly configurable to suit operational requirement.
- LED is PWM-modulated at 400 Hz to optimize performance and eliminate human flicker perception, regardless of brightness levels.
- Lights are fully dimmable and conform to FAA EB 67D and ICAO Annex 14 dimming curve
- Dedicated aiming device allows easy leveling and azimuth aiming of the light.
- Central barrel screw with two opposing locking screws ensure easy and stable leveling.

### Sustainability

- Independent Product Carbon Footprint calculation to support in product lifecycle analysis.
- Modular housing maximizes parts commonality and enables midlife upgrades .
- Options for either glass or UV-resistant polycarbonate outer lens.
- A single fixture family covers all elevated approach, runway and stop bar applications.
- IP68 & IP69K rated enclosure designed for harsh environments; all fastenings are stainless steel.
- This product is a direct replacement for ADB Safegate LED elevated fixtures, thanks to its mechanical and photometric backwards compatibility.
- Finishing: Stainless steel hardware, aluminum body, phosphated aviation yellow electrostatic polyester powder coating.
- Based on the LED manufacturer's ratings & calculations, we guarantee a LED life expectancy L70 higher than 50,000 operation hours.
- Aerodynamic and lightweight weight designed to withstand heaviest jet blast.

### Safety

- Identifiable daytime recognition, with large surface area colored optical module surround.
- Modular mechanical design consolidates and strengthens product components for faster, easier maintenance and reconfiguration.
- The fail-open option enables compatibility with both legacy and advanced control/monitoring systems.
- Failed-LED Detection as required by Engineering Brief 67D.
- The product meets the lightning protection criteria of ANSI/IEEE C62.41-1991 and FAA Eng. Brief 67's Location Category C2 requirements, which outlines a 1.2/50 - 8/20  $\mu$ s combination wave, peaking at 10,000 V and 5,000 A.

## Ordering Code

	Application	Standards	Market Specific	Lens Type	Toe-In	Color - Side 1 Left	Color - Side 2 Right	Omni Directional	Power Supply	Cable & Connector	Fixture Height	Coupling	Option 2	Advanced Connectivity	Refurbished	Version Control
A																

### Application

AC = Approach Centerline / Cross Bar  
 AS = Approach Siderow

### Standards

3 = ICAO

### Market Specific

0 = None  
 1 = Buy American Preference (BAP)  
 4 = German MIL 7-step

### Lens Type

G = Glass  
 P = UV Resistant Polycarbonate

### Toe-In

N = No Toe-In

### Color - Side 1 Left

W = White  
 R = Red

### Color - Side 2 Right

N = None (obscured)

### Omni Directional

0 = None  
 3 = Low Intensity Approach Omni Light (White)  
 4 = Low Intensity Approach Omni Light (Red)

### Power Supply

S = No monitoring  
 M = With Monitoring

### Cable & Connector

2 = 1 x Style 1 2-Pole Plug, Jacketed SO 2 Core Cable with Separate Earth for External Routing  
 7 = 2 Individual Wires, 16-18 AWG, 90" length, non terminated

### Fixture Height

A = Approach Mount for 60 mm Mast, Pole or Coupling or Base Plate

### Coupling

A = No Coupling (for approach only)

### Option 2

0 = None  
 1 = Smart Arctic Kit  
 3 = Near Infra Red  
 4 = with Smart Arctic Kit & Near Infra Red

### Advanced Connectivity

0 = 0

### Refurbished

0 = 0

### Version Control

1 = 1

## Power Supply

- Non-Monitored Power only
- Monitored — integrated Fail-open technology

## Maintenance and Installation

The light is made of a body, with an approach mount for 60mm mast or frangible coupling for ground mounting.

# AXON

## Operating Conditions

<b>Operating temperature</b>	-60 °C to +55 °C / -76 °F to +131 °F
<b>Storage temperature</b>	-60 °C to +80 °C / -76 °F to +176 °F
<b>Humidity</b>	Up to 100%

## Dimensions and Weight

<b>Dimensions</b>	TBC	TBC
<b>Weight</b>	Min 2.7 kg (6 lb, 8-in)	TBC



## ANNEX

### Elevated Approach Fixture

Fixture type	Fixture load	Isolation transformer		CCR load
		Wattage	Load	
Approach Centerline / Cross Bar	34 VA	30 W / 45 W	5 VA	39 VA
Approach Side Row	25 VA	30 W / 45 W	4 VA	29 VA

### Additional Overhead VA per Function

Fixture type	Additional fixture VA
Arctic Kit	5 VA (10 VA if combined with low intensity omni, as a second heater is needed)
Low intensity Omni White	10 VA
Low intensity Omni Red	9 VA
Infra Red	3 VA

#### Note:

- See manual 5055 for other power supplies.
- Fail-open fixtures:
  - The maximum rating for the isolation transformer is 150 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 the ADB SAFEGATE website: [www.adbsafegate.com](http://www.adbsafegate.com).