# AXON

## LED ICAO Approach Flash and Runway Threshold Indicator Light

### Elevated Unidirectional



## Compliance with Standards

| | |
|---|---|
| **ICAO** | Annex 14, Volume 1 |
| **IEC** | 61827 |
| **NATO** | STANAG 3316 |
| **EASA** | CS-ADR-DSN |
| **UK** | CAP 168 |
| **UFC** | 3-535-01 |
| **Canada** | TP 312 |
| **Australia** | MOS 139 |

CE

## SFL System

- Approach sequential flashing lights (main chain, light 1..32)
- Runway Threshold identification lights (TIL, light 31..32)
- Elevated positions in new and existing RELIANCE™ SFL installations

## Features and Benefits

### Efficiency

- Suitable for new or existing RELIANCE SFL installations and directly backward-compatible as a drop-in replacement.
- Wireless light address programming.
- Dynamic operation mode with three brightness steps: 100%, 10%, and 3%.
- The LED uses 400 Hz PWM modulation to optimize performance and prevent visible flicker at all brightness levels.
- Infrared for EFVS/NVG compatibility. Highly configurable to meet operational requirements.
- A dedicated aiming device allows easy leveling and azimuth adjustment of the light.
- A central barrel screw with two opposing locking screws ensures easy and stable leveling.

### Sustainability

- Independent product carbon footprint calculation available to support product lifecycle analysis.
- Modular housing maximizes parts commonality and allows midlife upgrades without replacing the product.
- Available with either a glass or UV-resistant polycarbonate outer lens.
- A single fixture family covers all elevated approach, flash, runway, and stop bar applications.
- Direct replacement for the RELIANCE elevated flash light head; existing chains, cabling, and control units remain in place.
- The enclosure is rated IP68 and IP69K for harsh environments. All fastenings are stainless steel.
- Finish: stainless steel hardware, aluminum body, and phosphated aviation-yellow electrostatic polyester powder coating.
- LED life expectancy (L70) is guaranteed to exceed 50,000 operating hours, based on the LED manufacturer's ratings.
- Aerodynamic and lightweight design built to withstand the strongest jet blast.

### Safety

- Single-light monitoring, even in standby mode.
- Clear daytime recognition with a large colored optical module surround.
- Modular mechanical design consolidates components for faster and easier maintenance and reconfiguration.
- SMART arctic kit available, providing heating power at all steps.
- Failed-LED detection as required by FAA Engineering Brief 67D.
- Powered by a safety extra-low voltage (SELV) supply, making it safe to service in the field (**36 VAC, 50/60Hz**)
- Overvoltage and lightning-current protection for power and data lines available at the system level (OLP800D-SFL).
- The product meets the lightning-protection requirements of ANSI/IEEE C62.41-1991 and FAA Engineering Brief 67, Location Category C2. It is tested with a 1.2/50-8/20 µs combination wave up to 10,000 V and 5,000 A.

# AXON

## Ordering Code

| Application | Standards | Market Specific | Lens Type | Toe-in | Color - Side 1 (Left) | Color - Side 2 (Right) | Omnidirectional | Power Supply | Cable and Connector | Fixture Height | Coupling | Option 2 | Advanced Connectivity | Refurbished | Version control |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ |

**Application**
FL = Approach Flasher

**Standards**
3 = ICAO

**Market Specific**
0 = None

**Lens Type**
G = Glass
P = UV resistant polycarbonate

**Toe-in**
N = No toe-in

**Color - Side 1 (Left)**
W = White

**Color - Side 2 (Right)**
N = None (obscured)

**Omnidirectional**
0 = None

**Power Supply**
V = Voltage from System MCU

**Cable and Connector**
0 = 4/C Cable with Semi-Stripped Leads, 2.5 m
F = 4/C Cable with FAA Style 1 Molded Plug, 0.3 m[1]

**Fixture Height**
A = Approach mount for 60 mm mast or pole[2]

**Coupling**
A = No coupling (for approach only)

**Option 2**
0 = None
1 = Smart arctic kit
3 = Near infra red
4 = Smart arctic kit & near infra red

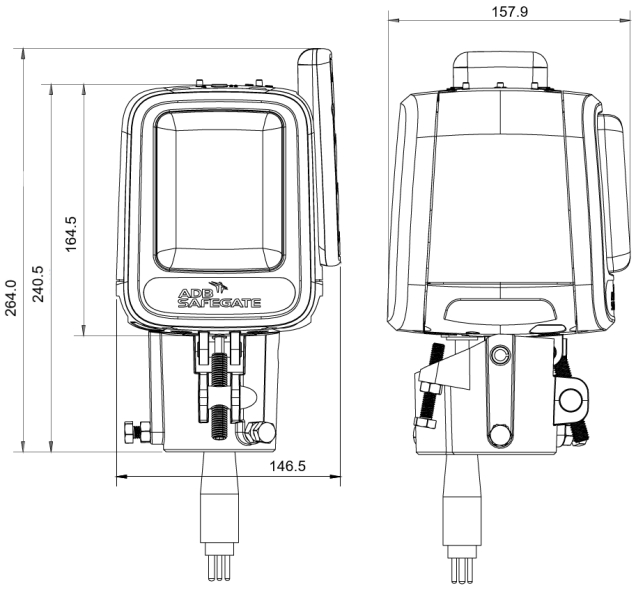
**Advanced Connectivity**
0 = 0

**Refurbished**
0 = 0

**Version control**
1 = 1

## Elevated Flasher

Base plate and frangible pedestal are not shown and are not part of the flash light. These articles can be ordered separately as accessories.




## Operating Conditions

| | |
|---|---|
| **Operating temperature** | -55 °C to +55 °C / -67 °F to +131 °F |
| **Storage temperature** | -60 °C to +80 °C / -76 °F to +176 °F |
| **Humidity** | Up to 100% |

## Dimensions and Weight

| | |
|---|---|
| **Dimensions in cm (H x W x D)** | 26.4 × 14.7 × 15.8 |
| **Weight** | Min 2.7 kg (6 lb) |

## ANNEX

### Elevated light fixtures with arctic kit, combined low intensity and infra red

| Fixture type | Fixture load |
|---|---|
| Approach flash and RTL | 43 VA |
| SMART arctic kit | 4 VA |
| Near infra red | 2 VA |

## System Design

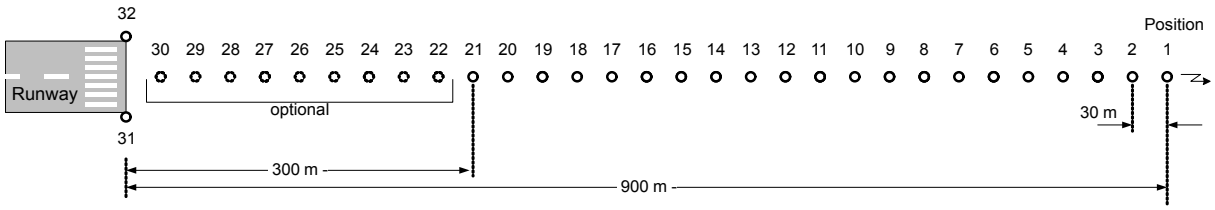
The AXON elevated flash light operates as part of the RELIANCE™Approach Flash System, referred to as SFL. The system consists of a control unit (MCU800D-SFL), main chain (SFL - light 1..30), threshold identification (TIL - light 31..32) and power distribution units (1..32).

The SFL system enables following static (installation) or dynamic (configuration settings) system configurations:

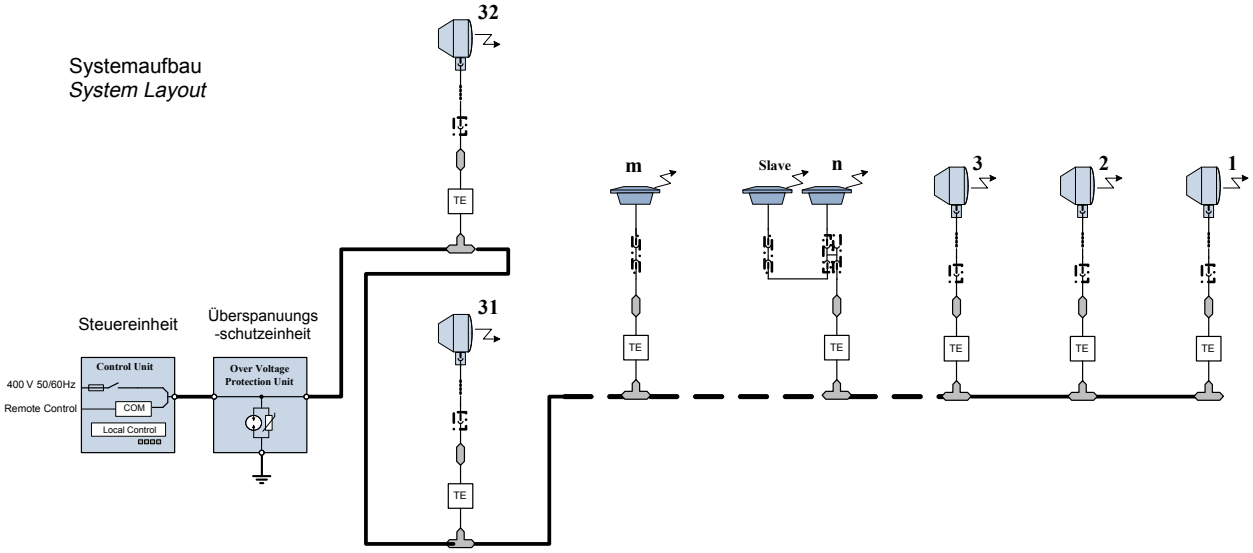
- Full main chain with/without TIL (light 1..32)
- Reduced main chain with/without TIL (light 1..20 + 31..32)
- TIL without main chain (light 31..32)

Elevated, single inset or double inset lights available for installation. The AXON flash light covers every elevated position in the chain.

For the complete RELIANCE SFL system description, refer to the RELIANCE Approach Flash System datasheet DS-4006.




## SFL System Layout




For more information on SFL system details, including the wiring diagram, cable color codes, and connection options for elevated and inset lights, control unit (MCU800D-SFL) and power distribution unit (PDU800D-SFL) specifications, and system ordering information, see the RELIANCE Approach Flash System datasheet DS-4006.



*Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.*