HIGH INTENSITY OBSTRUCTION LIGHT

According to **Annex 14 of ICAO regulations, High Intensity Obstruction Lights (HIOL) should be used to warn the presence of obstacles with an height above 150m** or when an aeronautical study indicates such lights as mandatory for the correct warning of an elevated structure, such as chimneys, cranes, buildings, bridges, high tension pylons and other buildings.

High Intensity Obstruction Lights include two type of beacons, with different charactertistics and uses:

- HIOL **Type A (intensity 200.000cd, day-mode white flashing; 20.000cd, twilight-mode white flashing; 2.000cd, night-mode white flashing)**, mainly used on skyscrapers, bridges, etc;
- HIOL **Type B (intensity 100.000cd, day-mode white flashing; 20.000cd, twilight-mode white flashing; 2.000cd, night-mode white flashing),** mainly used on high voltage pylons where it is not practical to install cable markers.

DUAL type beacons are mounted in a single beacon and are used during the day (with white LEDs) and during the night (with red LEDs); these beacons are:

- DUAL HIOL **Type AB (intensity 200.000cd, day-mode white flashing; 20.000cd, twilight-mode white flashing; 2.000cd, night-mode red flashing)** should be used in combination with Low Intensity Obstacle Lights, Type B;
- DUAL HIOL **Type AC (intensity 200.000cd, day-mode white flashing; 20.000cd, twilight-mode white flashing; 2.000cd, night-mode red steady burning)** should be used in combination with Medium Intensity Obstacle Lights, Type C.

HIOL-A 60°/120°/180° (LXS-RUG)

Anodised aluminium body

Borosilicate glass cover protection

- Based on LED technology
  - WHITE flashing (HIOL-A)
  - WHITE/RED flashing (HIOL-AB)
  - WHITE flashing and RED steady (HIOL-AC)

Catenary and simultaneous flash synchronization

Stabilised light output:
200.000cd day mode
20.000cd twilight mode
2.000cd night mode

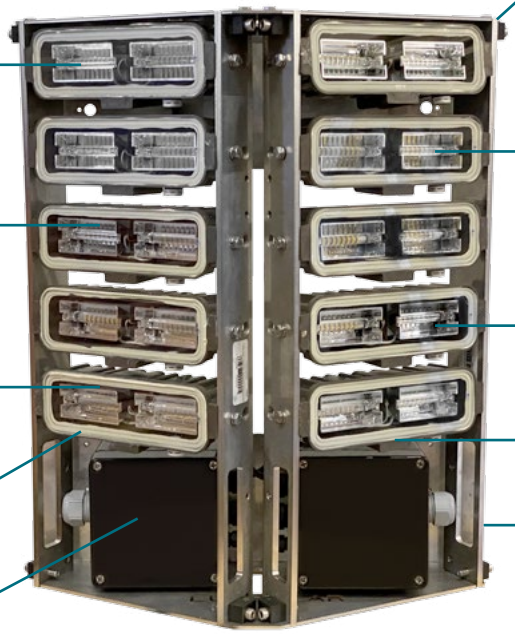
Optimized optical lens

Anti-condensation Gore-Tex valve

Infrared version* (for Red LEDs)

SS316L support

GRP terminal box



*as option

IP66

PATENTED

The L856-LXS-RUG High Intensity Obstruction Light is compliant with **ICAO** (High Intensity - Type A) and **FAA** (Type L-856). With a **body designed for optimum light emission and increased cooling, high quality and ultra-bright LEDs and patented lenses;** the HIOL-A product is one of the **most up-to-date and technologically advanced Aircraft Warning Light.**

This LED beacon emits 200.000 candelas during day mode and through a separate controller, the intensity is automatically adjusted in day/twilight/night mode; another avantage is the compact shape that allows a DUAL mode beacon in a single housing (white LEDs for day and twilight and red LEDs for night).

The L856-LXS-RUG is used for skycrapers, bridges and all high structures where high intensity visibility is required.

CERTIFICATION

CE

COMPLIANCE

ICAO | EASA | FAA

FEATURES

BASE: alu AL
COVER: BOROSILICATE
-20°C +50°C
IP66
ON
SELF extinguishing
LED SMD
DAY: CD 200000
TWILIGHT: CD 20000
NIGHT: CD 2000
LED LIGHT DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS 3R LED PRODUCT
Photometric Test
GORE-TEX
EASY INSTALL

TYPICAL APPLICATION

HIGH INTENSITY

HIOL-A 60°/120°/180° (LXS-RUG) TECHNICAL SPECIFICATIONS

OPTICAL FEATURES

- Based on LED technology
- **WHITE light - HIOL A**
  - 200.000cd day mode
  - 20.000cd twilight mode
  - 2.000cd night mode
- **WHITE/RED light - HIOL AB/AC**
  - 200.000cd day mode
  - 20.000cd twilight mode
  - 2.000cd night mode
- Cd emission @ -0,5° and +4°
- Horizontal beam radiation: 60° or 120° or 180°
- Vertical beam spread: +3 / +7°
- PMMA lens

MECHANICAL FEATURES

- Anodised aluminium body with heat-sink pins for maximum heat dissipation
- Terminal JB for connection in Glass Reinforced Polyester (GRP), black colour
- Borosilicate glass cover protection
- Degree of protection: IP66
- Anti-condensation Gore-Tex valve
- Operating temperature: -20°C to +50°C
- Lamp unit weight: 16kg
- SS304 beacon support base

ELECTRICAL FEATURES

- Electronic components installed inside separate controller
- Average power consumption LXS-RUG 60° @40fpm:
  - Day mode:110W
  - Twilight mode: 13W
  - Night mode: 6W

ELECTRICAL FEATURES

- Average power consumption LXS-RUG 120° @40fpm:
  - Day mode: 220W
  - Twilight mode: 26W
  - Night mode: 12W
- Surger arrester
- No RF radiations
- LED feeded at constant current

OPTIONS

- IR wavelenght 850mM, compatible with pilot's NVG (for RED LEDs only)

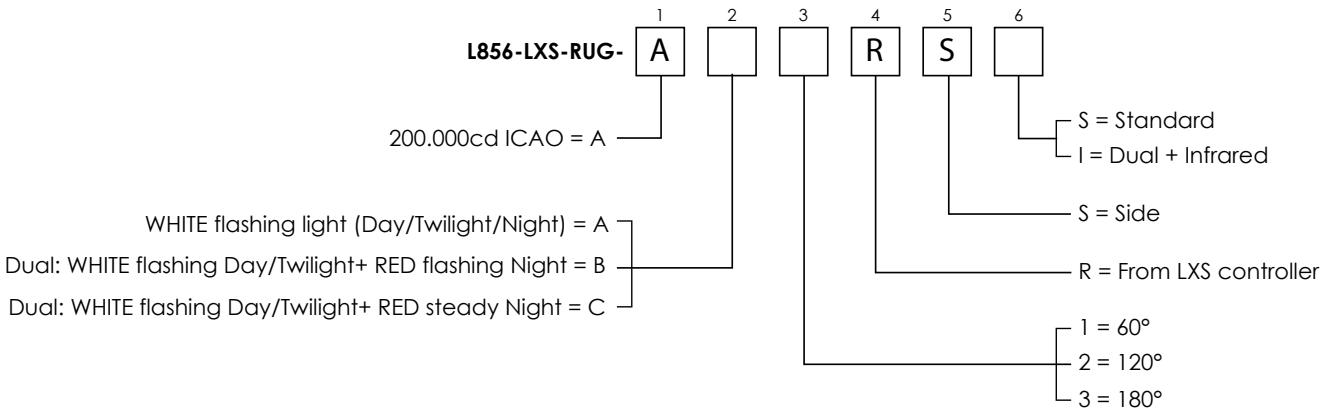
CERTIFICATIONS

- CE marking

COMPLIANCE

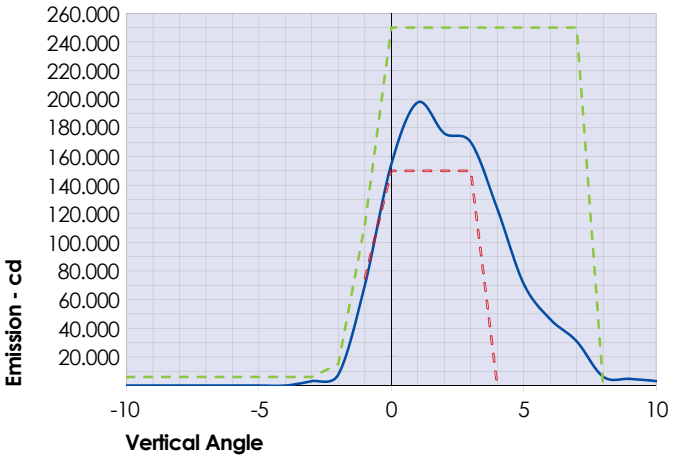
- ICAO Aerodromes - Annex 14 Vol. 1, Ch. 6: High intensity, Type-A flashing obstacle light HIOL-A/AB/AC Type
- FAA AC150/5345-43 E.B. #67 type L-856
- EASA CS-ADR-DSN

ORDER CODE



HIGH INTENSITY

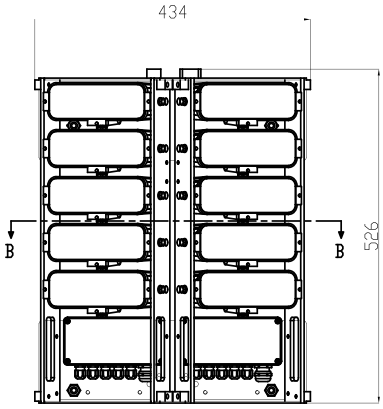
HIOL-A 60°/120°/180° (LXS-RUG) TECHNICAL SPECIFICATIONS



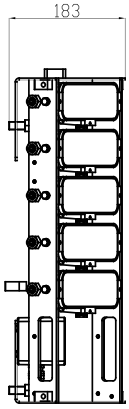
- L856-LXS-A average emission level at 70°C ambient temperature
- ICAO ANNEX 14 high intensity Type A - Min. Required Intensity ICAO
- ANNEX 14 high intensity Type A - Max. Required Intensity

HIOL-A 120° (LXS-RUG)

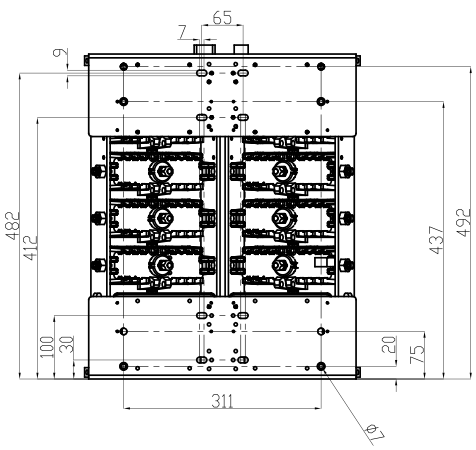
FRONT VIEW



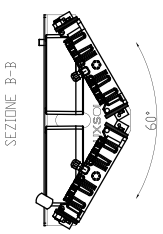
SIDE VIEW



REAR VIEW

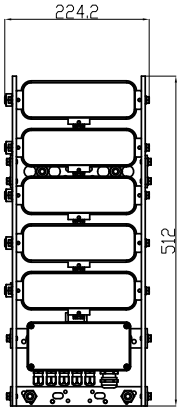


TOP VIEW

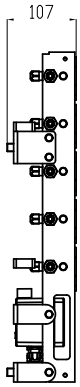


HIOL-A 60° (LXS-RUG)

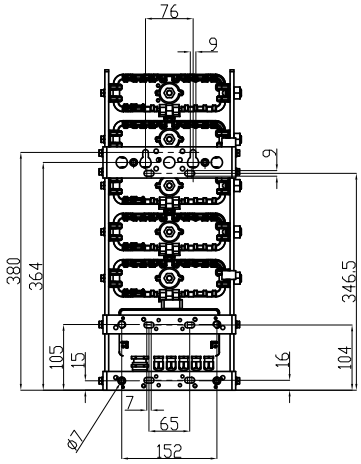
FRONT VIEW



SIDE VIEW



REAR VIEW



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