

MEDIUM INTENSITY OBSTRUCTION LIGHT



According to Annex 14 of ICAO regulations, Medium Intensity Obstruction Lights (MIOL) should be used to warn the presence of obstacles with an height between 45m and 150m, such as telecommunication towers, wind turbines, chimneys, cranes, buildings and other structures.

Medium Intensity Obstruction Lights include three type of beacons, with different characteristics and uses:

- MIOL, Type A (intensity 20.000cd, day-mode white flashing; 2.000cd, night-mode white flashing) should be used alone;
- MIOL, Type B (intensity 2.000cd, night-mode red flashing) should be used either alone or in combination with Low Intensity Obstacle Lights, Type B or Type E;
- MIOL, Type C (intensity 2.000cd, night-mode red steady burning) should be used either alone or in combination with Medium Intensity Obstacle Lights, Type AC.

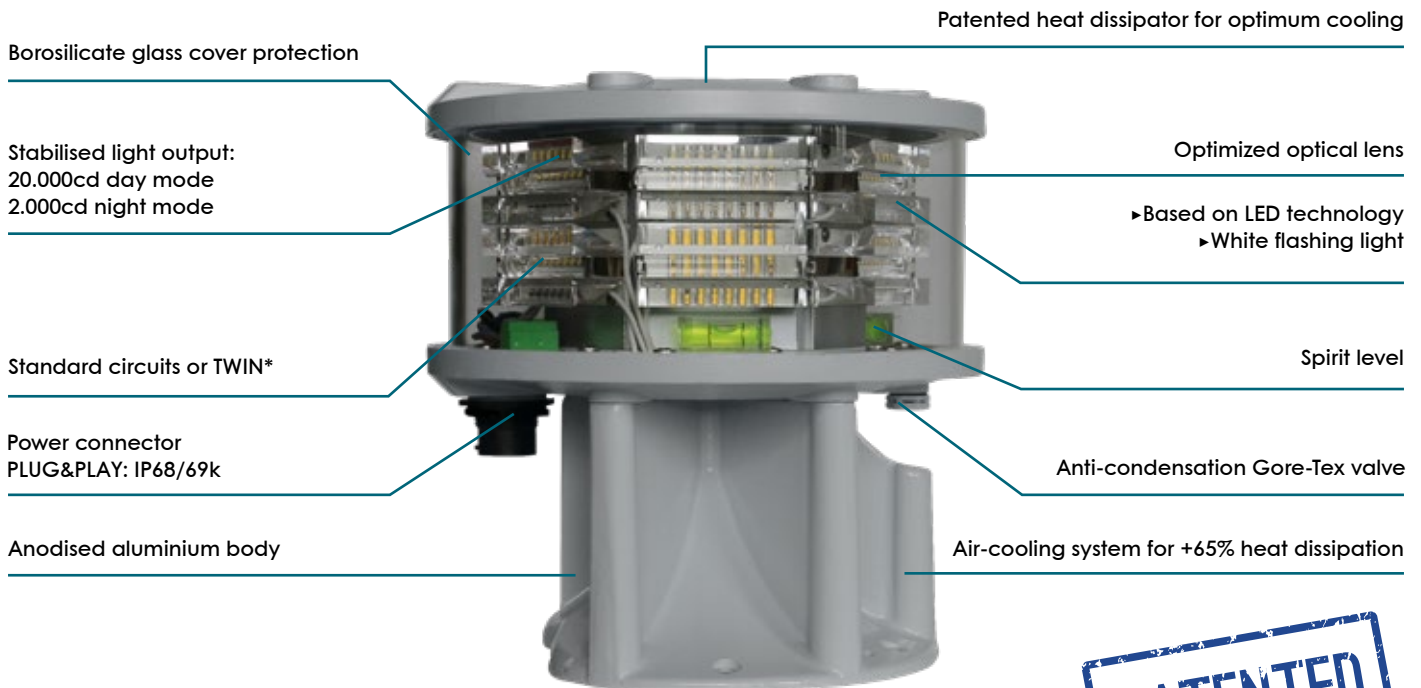
LUXSOLAR offers to its customers also DUAL type beacons in the same light fixture, suitable to be used during the day (with white LEDs) and during the night (with red LEDs); these beacons are:

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



MEDIUM INTENSITY

MIOL-A



NOTE: electronic beacon driver in a separate enclosure

*as option

IP66



LUXSOLAR L865-LXS-200 Medium Intensity Obstruction Light is **compliant to ICAO and EASA** (Medium Intensity - Type A), **FAA** (Type L-865) **and ENAC certified**.

With a **compact body**, high quality and **ultra-bright LEDs**, **customized lenses** and **patented shape for optimum light emission and beacon cooling** LUXSOLAR MIOL-A-LXS-200 product is the most **up-to-dated and technologically advanced Aircraft Warning Light**.

This LED device is designed to **not contain any electronic component** (that is available in a separate control local panel): a huge **advantage in terms of increased life-time and suitability to all environments** (beacons can stand extreme weather conditions) and in terms of an **easy maintenance** (in case of maintenance or periodic checks on electronic components, these can be done at ground or easily accessible levels).

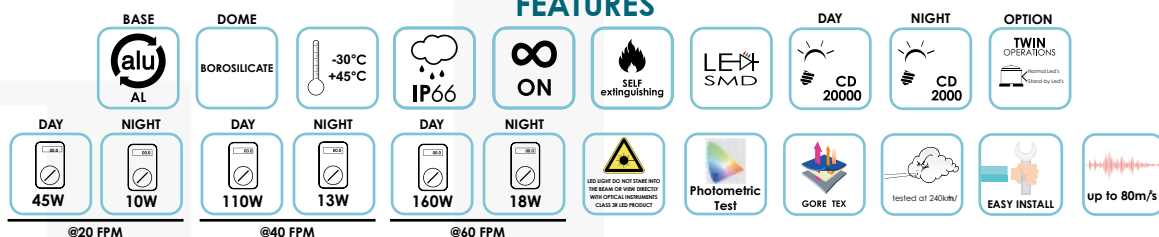
CERTIFICATION



COMPLIANCE



FEATURES



TYPICAL APPLICATION



MEDIUM INTENSITY

MIOL-A TECHNICAL SPECIFICATIONS

OPTICAL FEATURES

- Based on LED technology
- 20.000cd day mode, WHITE flashing
- 2.000cd night mode, WHITE flashing
- Cd emission @ -0,5° and +4°
- Horizontal beam radiation: 360°
- Vertical beam spread: 4°
- PMMA lens
- Light output alignment device

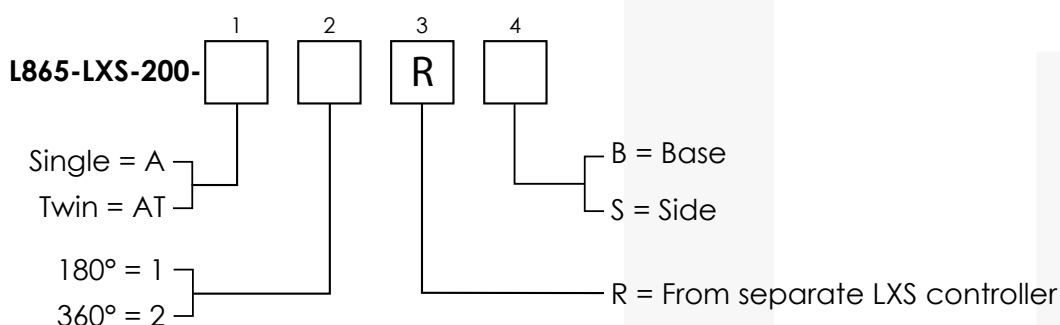
MECHANICAL FEATURES

- Anodised aluminium body, painted RAL7035
- Borosilicate glass cover protection
- Silicon rubber, VMQ
- Base wind collector and internal heat sink for optimum cooling
- Degree of protection: IP66
- Anti-condensation Gore-Tex valve
- Operating temperature: -30°C to +50°C
- Lamp unit weight: 6kg
- SS304 beacon support bracket
- Equipped with separate control box for beacon power supply

ELECTRICAL FEATURES

- Power supply by LUXSOLAR remote control panel (see dedicated datasheet for panel):
 - 12/24 VDC;
 - 48 VDC;
 - 115/230VAC;
 - Other power supply range available;
- Average power consumption for MIOL-A:
 - @20fpm: 45W(day)
 - @40fpm: 110W(day)
 - @60fpm: 160W(day)
- Peak power consumption: 500VA
- LED feeded at constant current
- No RF-radiations
- Range section of connectable conductors: 0,5mm² to 2,5mm²
- Cable outer diameter range: 7mm to 14mm

ORDER CODE



OPTIONS

- LUXSOLAR Cloud Monitoring System
- TWIN version: two separate LED circuits in the same fixture (normal + stand-by)

APPLY TO

- | | |
|---------------------|------------------------------|
| • Airport | • Radio and television tower |
| • Stack | • Wind turbine |
| • High Building | • Wind mast measurement |
| • Chimney | • Radar |
| • Tower crane | • Antenna |
| • Pipe line | |
| • Bridge | |
| • Transmission line | |

CERTIFICATIONS

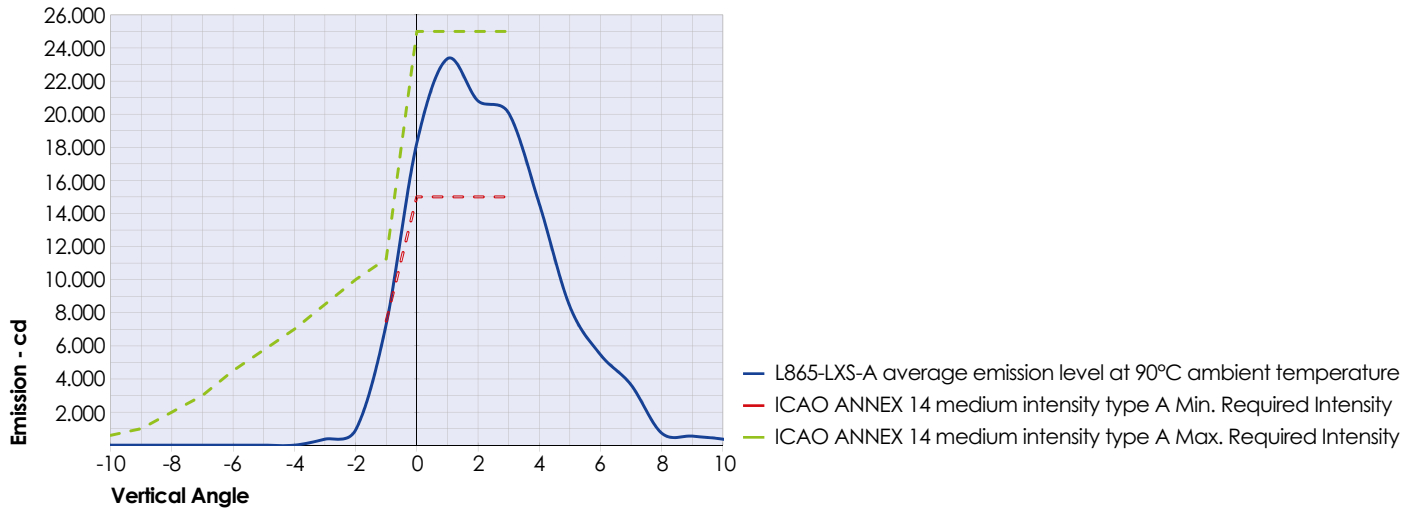
- DGAC/STAC approval nr. 2013A038
- ENAC approval nr. 0135182/ENAC/CIA
- CE marking

COMPLIANCE

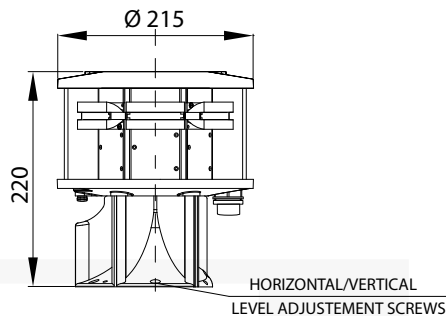
- ICAO Aerodromes - Annex 14 Vol. 1, Ch.6: Medium intensity, Type A flashing obstacle light MIOL-A type;
- FAA AC150/5345-43; E.B. #67 type L-865
- EASA Aerodromes Design - CS-ADR-DSN, Ch.Q: Medium intensity, Type A flashing obstacle light MIOL-A type

MEDIUM INTENSITY

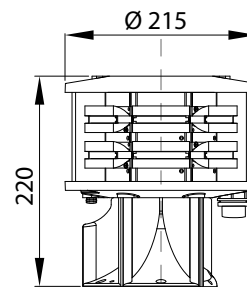
MIOL-A TECHNICAL SPECIFICATIONS



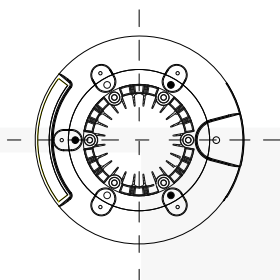
SINGLE VERSION
SIDE VIEW



TWIN VERSION
SIDE VIEW

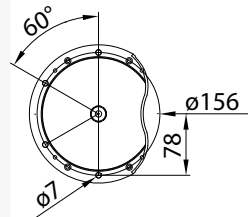
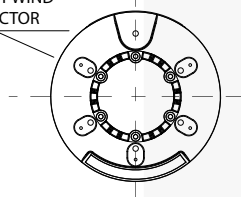


TOP VIEW



BOTTOM VIEW

BOTTOM VIEW
WITHOUT WIND
COLLECTOR



FIXING DETAILS SIDE
(not scale)

