

MEDIUM INTENSITY

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.

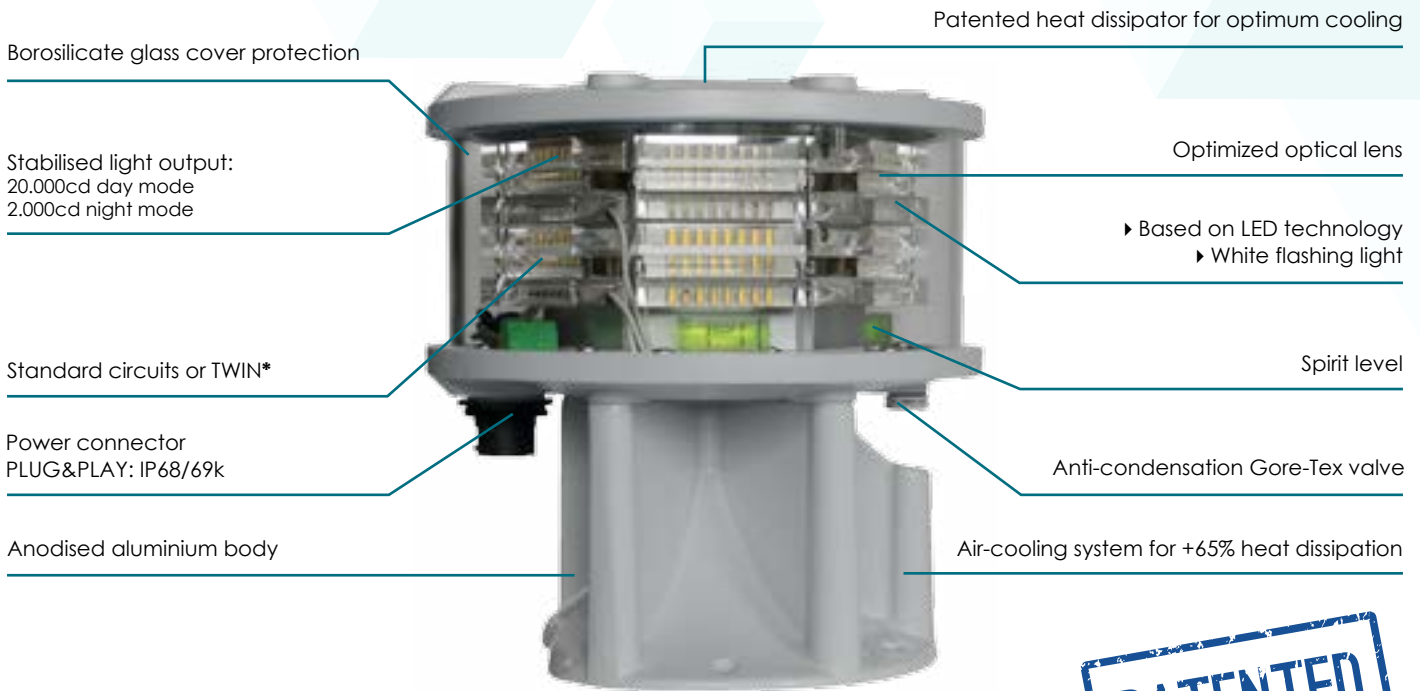
LUXSOLAR offers to its customers also **DUAL type beacons in the same light fixture, suitable to be used during the day (with white LEDs) and during the night (with red LEDs)**; these beacons are:

- 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

| | | | | | | | | | | | | | | | | | | | |
|-------------------|--------------|----------------------|--------------|-------------------------------|--------------|--|--|------------------|--|--------------------|--|-------------------|--|-----------------|--|--------------------------|--|---|--|
| BASE alu AL | | DOME BOROSILICATE | | TEMPERATURE -30°C +45°C | | IP66 | | ON | | SELF extinguishing | | LED SMD | | DAY CD 20000 | | NIGHT CD 2000 | | OPTION TWIN OPERATIONS *external leads *flashed by leads | |
| DAY 45W | NIGHT 10W | DAY 110W | NIGHT 13W | DAY 160W | NIGHT 18W | LEAD LIGHT DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS OR AIR PRODUCT | | Photometric Test | | GORE TEX | | tested at 240km/h | | EASY INSTALL | | up to 80m/s ² | | | |
| @20 FPM | | | | @40 FPM | | | | @60 FPM | | | | | | | | | | | |

TYPICAL APPLICATION



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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

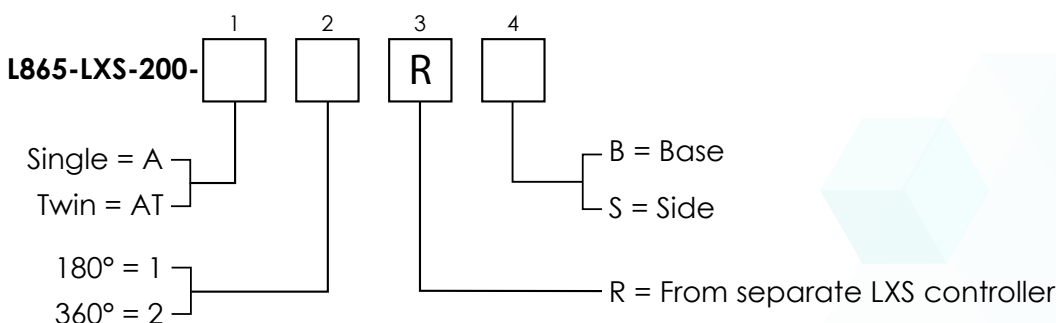
MECHANICAL FEATURES

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

CERTIFICATIONS

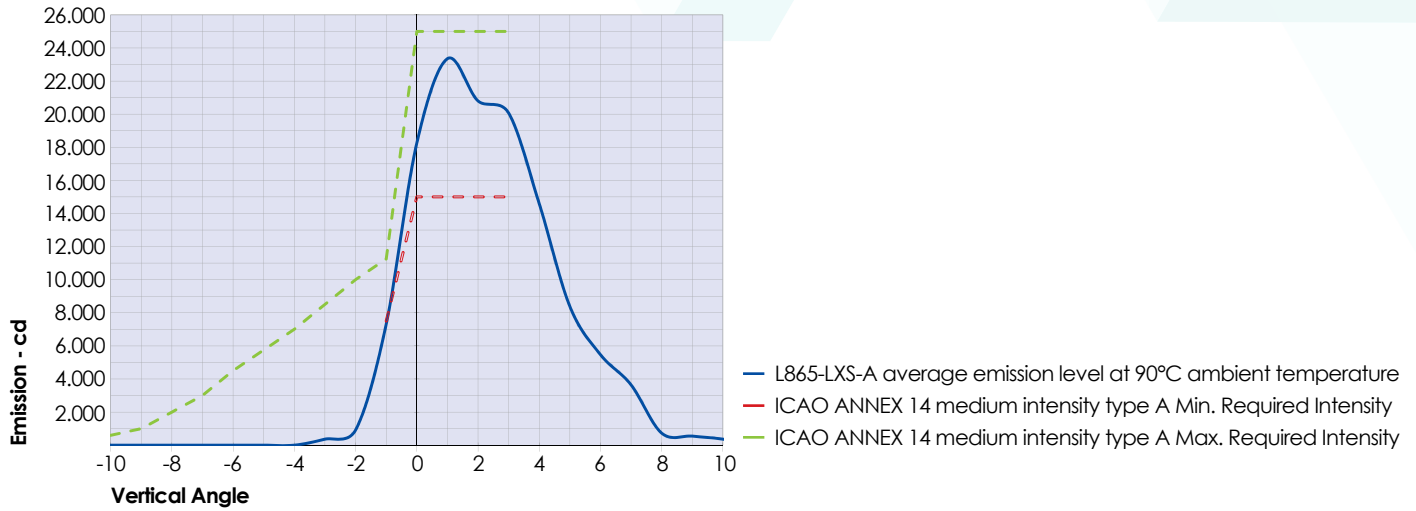
- DGAC/STAC approval nr. 2013A038
- ENAC approval nr. 0135182/ENAC/CIA
- CE marking

COMPLIANCE

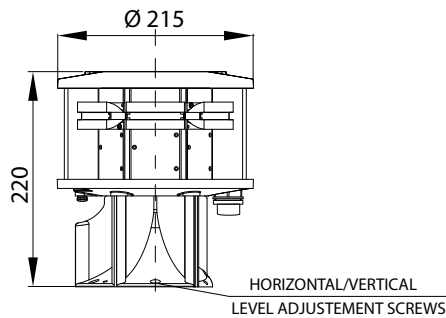
- ICAO Aerodromes - Annex 14 Vol. 1, Ch.6: Medium intensity, Type A flashing obstacle light MIOL-A type;
- FAA AC150/5345-43; E.B. #67 type L-865
- EASA Aerodromes Design - CS-ADR-DSN, Ch.Q: Medium intensity, Type A flashing obstacle light MIOL-A type

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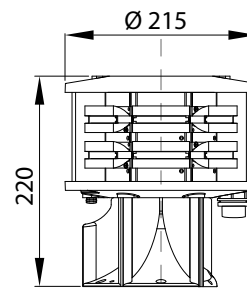
MIOL-A TECHNICAL SPECIFICATIONS



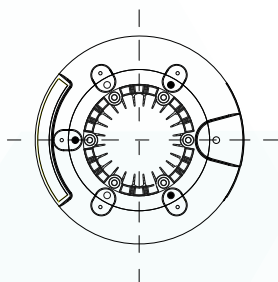
SINGLE VERSION
SIDE VIEW



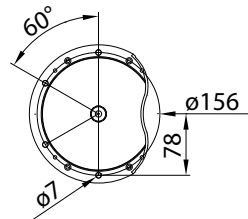
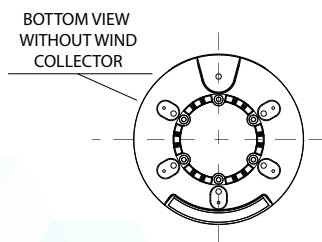
TWIN VERSION
SIDE VIEW



TOP VIEW



BOTTOM VIEW



FIXING DETAILS SIDE
(not scale)

