

# 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.

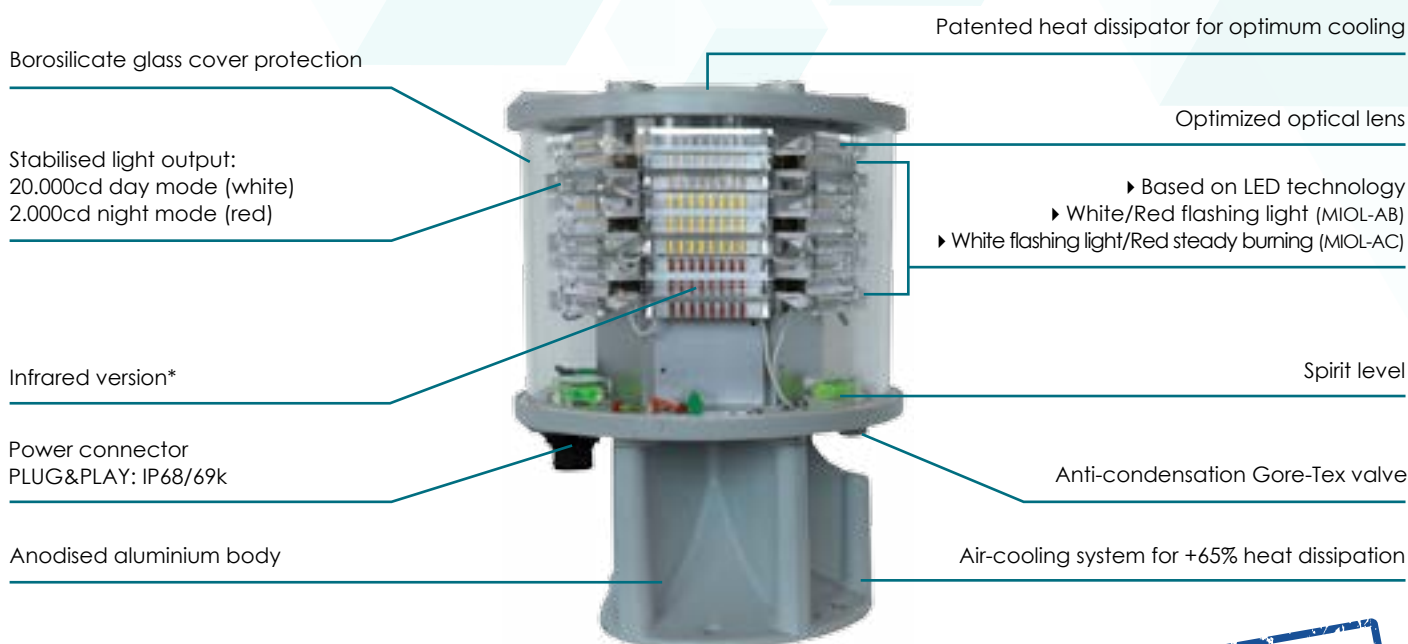
LUXSOLAR offers to its customers also **DUAL type beacons in the same light fixture, suitable to be used during the day (with white LEDs) and during the night (with red LEDs)**; these beacons are:

- 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.



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## MIOL-AB/MIOL-AC



**NOTE: electronic beacon driver in a separate enclosure**

\*as option

**IP66**



LUXSOLAR L864/L865-LXS-200 Medium Intensity Obstruction Light is **compliant to ICAO and EASA** (Medium Intensity - Type AB and AC), **FAA** (Type L-864/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-AB/AC-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).

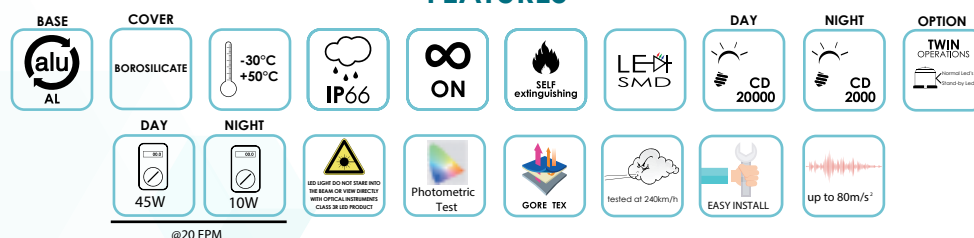
### CERTIFICATION



### COMPLIANCE



### FEATURES



### TYPICAL APPLICATION



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## MIOL-AB and MIOL-AC TECHNICAL SPECIFICATIONS

### OPTICAL FEATURES

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

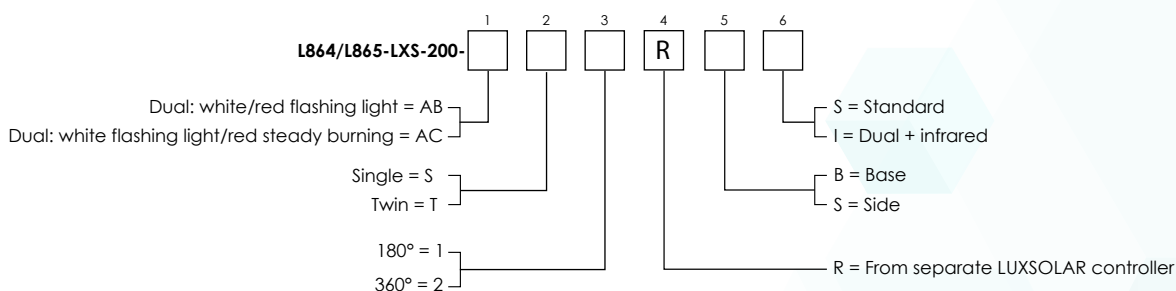
### MECHANICAL FEATURES

- 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: 7kg
- 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):
  - 24 VDC;
  - 48 VDC;
  - 115/230VAC;
  - Other power supply range available;
- Average power consumption:
  - @20fpm day mode: 45W (MIOL-AB/MIOL-AC)
  - @20fpm night mode: 10W (MIOL-AB)
  - @40fpm day mode: 110W (MIOL-AB/MIOL-AC)
  - @40fpm night mode: 12W (MIOL-AB)
  - @60fpm day mode: 160W (MIOL-AB/MIOL-AC)
  - @60fpm night mode: 16W (MIOL-AB)
  - night mode (steady burning) MIOL-AC: 50W
- Peak power consumption MIOL-AB/AC: 600VA
- LED feeded at constant current
- No RF-radiations
- Range section of connectable conductors: 0,5mm<sup>2</sup> to 2,5mm<sup>2</sup>
- 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)
- IR Wavelength - 850nm

### 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

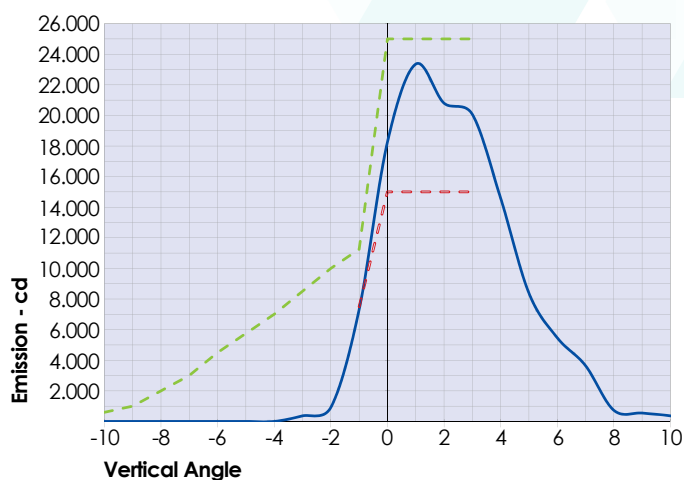
- DGAC/STAC approval nr. 2013A037/2013A038
- ENAC approval nr. 0135182/ENAC/CIA
- CE marking

### COMPLIANCE

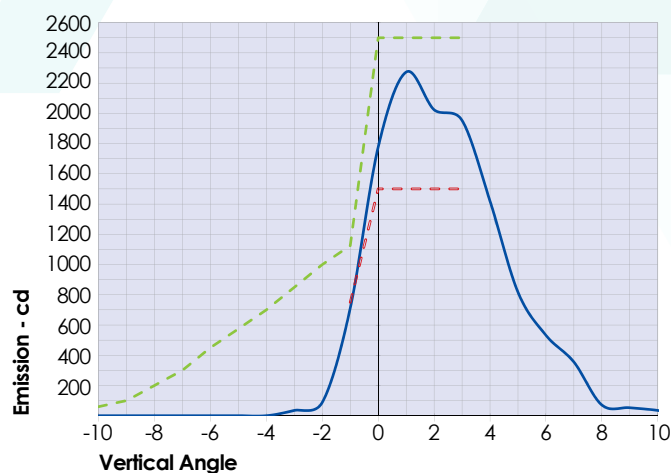
- ICAO Aerodromes - Annex 14 Vol.1, Ch. 6: Medium intensity, Type AB/AC
- FAA AC150/5345-43 E.B. #67 Lamp type Dual L-864/L-865
- EASA Aerodromes Design - CS-ADR-DSN, Ch.Q: Medium intensity, Type AB/AC flashing obstacle light MIOL-AB/AC type

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## MIOL-AB and MIOL-AC TECHNICAL SPECIFICATIONS

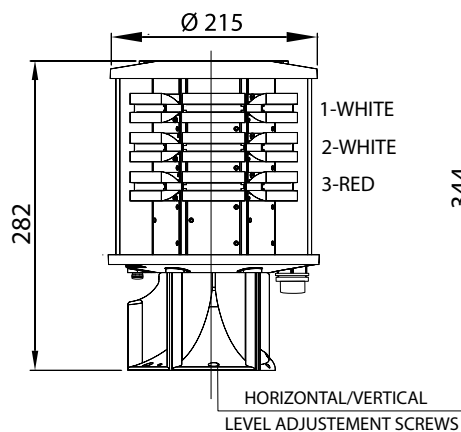


- L865-LXS-A average emission level at 90°C ambient temperature
- ICAO ANNEX 14 medium intensity type A Min. Required Intensity
- ICAO ANNEX 14 medium intensity A Max. Required Intensity

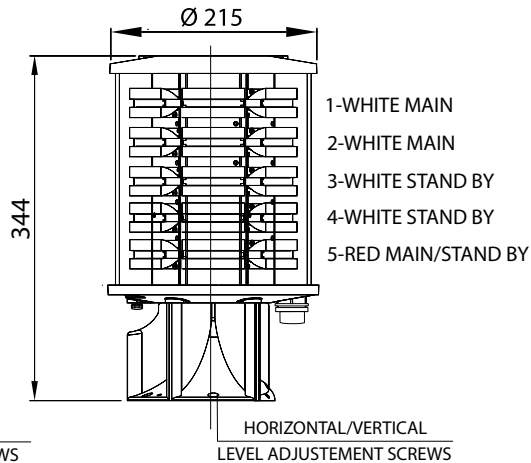


- L864-LXS-B/C average emission level at 90°C ambient temperature
- ICAO ANNEX 14 medium intensity type B/C Min. Required Intensity
- ICAO ANNEX 14 medium intensity type B/C Max. Required Intensity

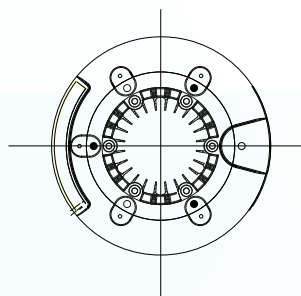
**SIDE VIEW  
SINGLE VERSION**



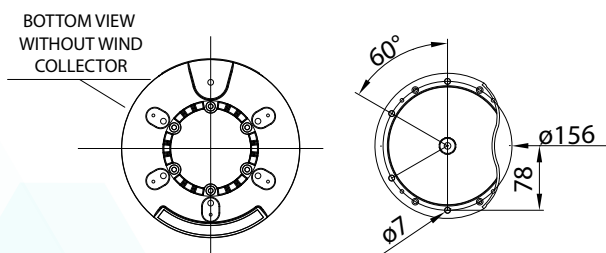
**SIDE VIEW  
TWIN VERSION**



**TOP VIEW**



**BOTTOM VIEW**



**FIXING DETAILS SIDE  
(not scale)**

