

## 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.

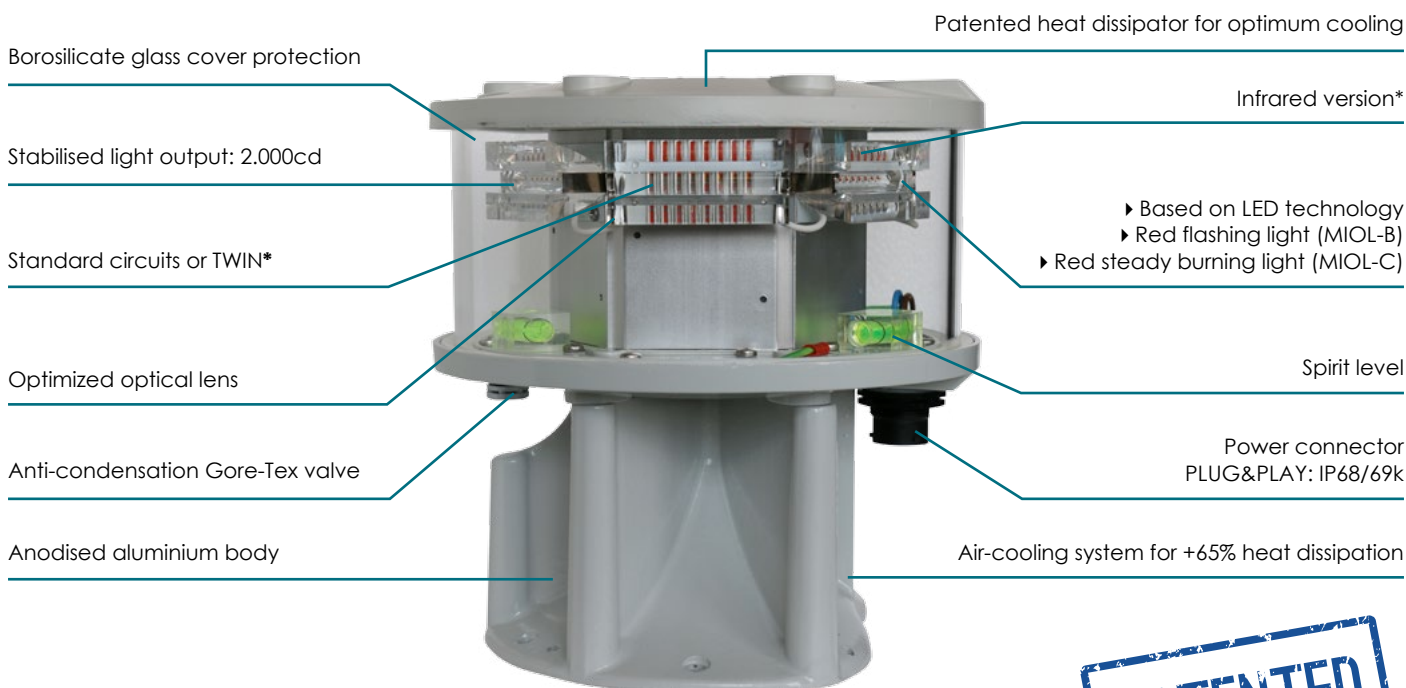
Medium Intensity Obstruction Lights include three type of beacons, with different characteristics and uses:

- 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.

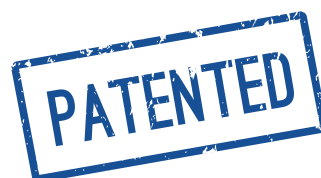
# MIOL-B/MIOL-C



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

\*as option

**IP66**



LUXSOLAR L864-LXS-200 Medium Intensity Obstruction Light is **compliant to ICAO** (Medium Intensity - Type B or C), **FAA** (Type L-864), **ENAC and EASA 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-B/C-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).

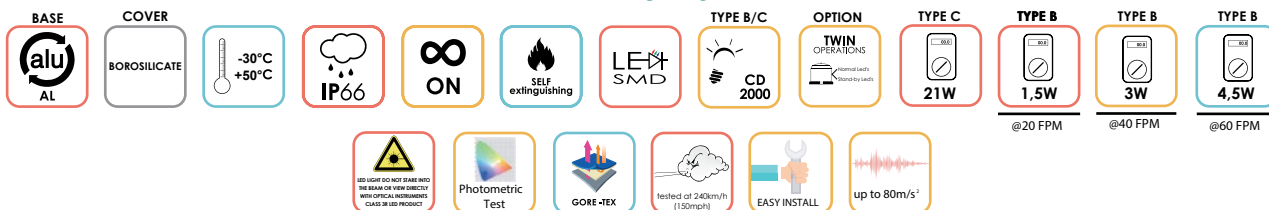
## CERTIFICATION



## COMPLIANCE



## FEATURES



## TYPICAL APPLICATION



# MEDIUM INTENSITY

## MIOL-B and MIOL-C TECHNICAL SPECIFICATIONS

### OPTICAL FEATURES

- Based on LED technology
- RED light 2.000cd
- 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-B (flashing):
  - @20fpm: 1,5W
  - @40fpm: 3W
  - @60fpm: 4,5W
- Average power consumption for MIOL-C (Steady Burning): 21W
- 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

### OPTIONS

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

### APPLY TO

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

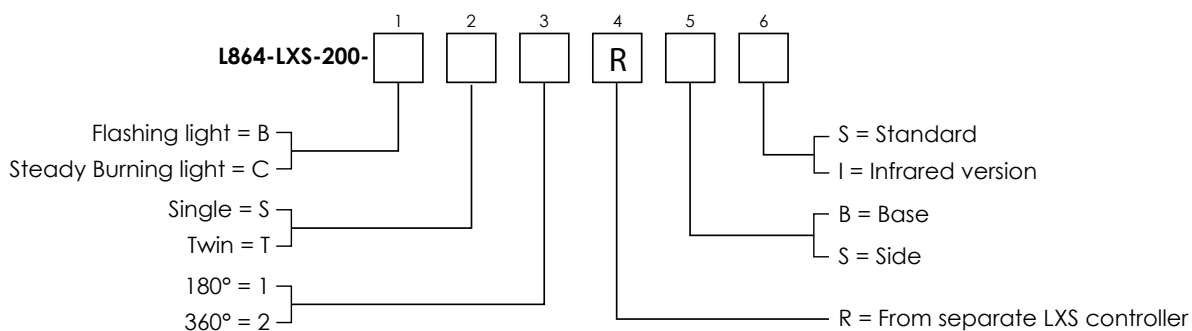
### CERTIFICATIONS

- DGAC/STAC approval nr. 2013A037
- ENAC approval nr. 0135182/ENAC/CIA
- EASA test report (EN17025 laboratory) nr. 326-QL20-R09/R10
- FAA test report (EN17025 laboratory) nr. 880-QL18-R03
- CE marking

### COMPLIANCE

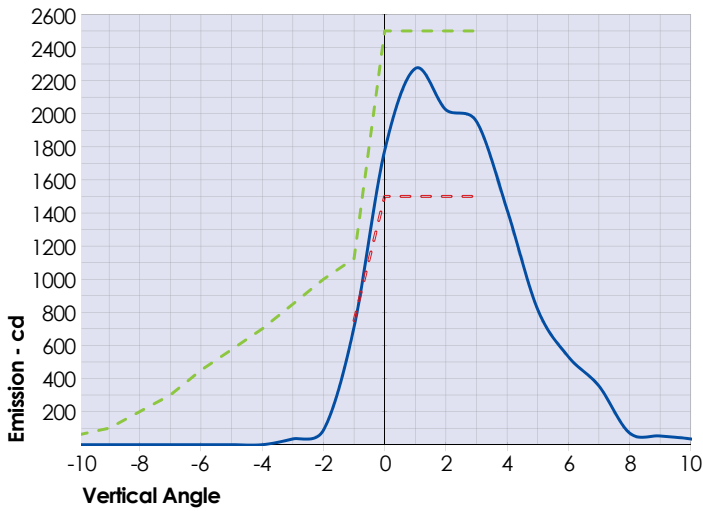
- ICAO Aerodromes - Annex 14 Vol. 1, Ch.6: Medium intensity, Type B flashing obstacle light MIOL-B type or Type C steady burning obstacle light MIOL-C type;
- FAA AC150/5345-43; E.B. #67 type L-864;
- EASA Aerodromes Design - CS-ADR-DSN, Ch.Q: Medium intensity, Type B flashing obstacle light MIOL-B type or Type C steady burning obstacle light MIOL-C type

### ORDER CODE



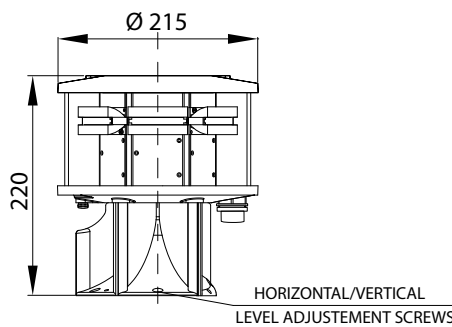
# MEDIUM INTENSITY

## MIOL-B and MIOL-C TECHNICAL SPECIFICATIONS

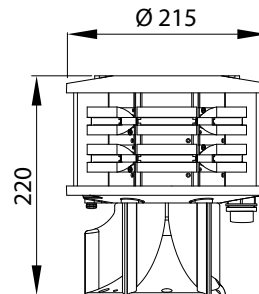


- L864-LXS-B/C average emission level at 90°C ambient temperature
- - - ICAO ANNEX 14 medium intensity type B/C Min. Required Intensity
- - - ICAO ANNEX 14 medium intensity type B/C Max. Required Intensity

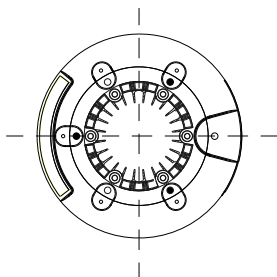
SINGLE VERSION  
SIDE VIEW



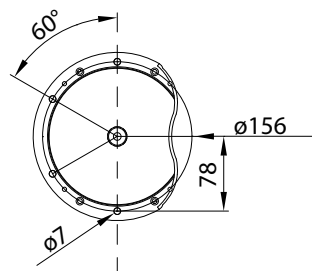
TWIN VERSION  
SIDE VIEW



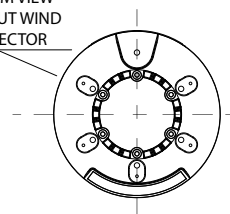
TOP VIEW



BOTTOM VIEW



BOTTOM VIEW  
WITHOUT WIND  
COLLECTOR



FIXING DETAILS SIDE  
(not scale)

