MEDIUM INTENSITY OBSTRUCTION LIGHT

According to **Annex 14 of ICAO regulation, 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 charactertistics 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.

rev_
250108_A

MIOL-A Ex eb mb op is

Patented heat dissipator for optimum cooling

▸Based on LED technology
▸White flashing light

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

Optimized optical lens

Standard circuits or TWIN*

Borosilicate glass cover protection

Anodised aluminium body

Air-cooling system for +65% heat dissipation

Anti-condensation Gore-Tex valve

Ex eb terminal box

**approved "op is"
as per IEC 60079-28
Optical Radiation**

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

*as option

IP66

PATENTED

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

With a **compact body,** high quality and **ultra-bright LEDs, customised lenses for an optimum beam spread,** LUXSOLAR MIOL-A Ex product is your best choice for an efficient, long life and reliable Aircraft Warning Obstacle Light.

This beacon has been designed for hazardous areas with Ex eb mb op is IIC and Ex tb op is IIIC protection. **ATEX, IECEx** and **INMETRO** certified, compliant to **EN/IEC 60079-0, EN/IEC 60079-7, EN/IEC 60079-18, EN/IEC 60079-28, EN/IEC 60079-31 regulations. It is suitable for hazardous areas Zone 1, Zone 21, Zone 2, Zone 22** where potentially explosive atmosphere due to the presence of flammable and explosive vapours, gas or dust may be present.

CERTIFICATION

| CE | ICAO | EASA | ATEX | IECEx | INMETRO |

COMPLIANCE

FAA

FEATURES

| BASE | DOME | | | | | DAY | NIGHT | OPTION | |
| AL (alu) | BOROSILICATE | -30°C +50°C | IP66 | ∞ ON | SELF extinguishing | LED SMD | CD 20000 | CD 2000 | TWIN OPERATIONS Normal Led's Stand-by Led's | LED LIGHT DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS 3R LED PRODUCT |

| GORE-TEX | Photometric Test | EASY INSTALL |

TYPICAL APPLICATION

MEDIUM INTENSITY

MIOL-A Ex eb mb op is
TECHNICAL SPECIFICATIONS

OPTICAL FEATURES

- Based on LED technology
- 20.000cd day mode, WHITE flashing
- 2.000cd night mode, WHITE flashing
- Horizontal beam radiation: 360°
- Vertical beam spread: 4°
- PMMA lens
- ATEX marking:
  - II 2GD
    Ex eb mb op is IIC T6 Gb;
    Ex op is tb IIIC T80°C Db
  - II 3GD
    Ex eb mb IIC T6 Gc;
    Ex tb IIIC T80°C Dc
- IECEx marking:
  - Ex eb mb op is IIC T6 Gb;
    Ex op is tb IIIC T80°C Db
  - Ex eb mb IIC T6 Gc;
    Ex tb IIIC T80° Dc

MECHANICAL FEATURES

- RAL 2004 painted aluminium body
- Borosilicate glass cover protection
- 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: 12kg

ELECTRICAL FEATURES

- Power supply by Luxsolar Control Panel:
  - 12/24 Vdc
  - 115/230 Vac
- Average power consumption (@20fpm):
  - day mode: 45W
  - night mode: 10W
- Average power consumption (@40fpm):
  - day mode: 110W
  - night mode: 13W
- Average power consumption (@60fpm):
  - day mode: 160W
  - night mode: 18W
- LED feeded at constant current
- No RF-radiations

OPTIONS

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

APPLY TO

- Stack
- Chimney
- Tower crane
- Offshore Platform
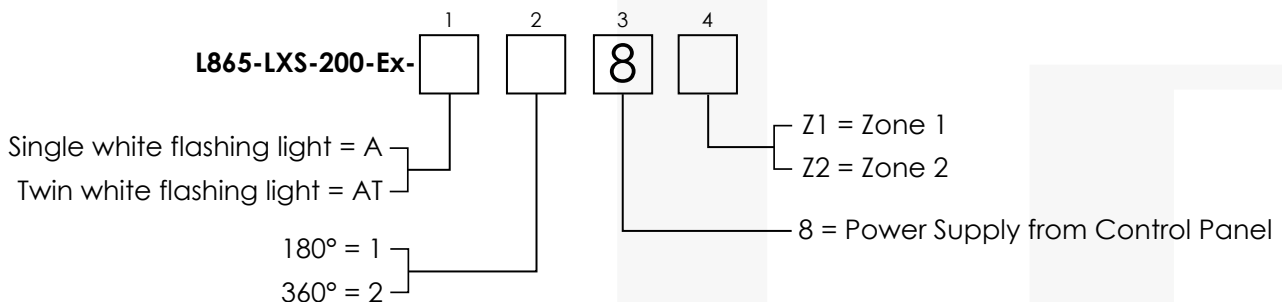- Chemical and petrochemical plant

CERTIFICATIONS

- ATEX certificate
- IECEx certificate
- INMETRO certificate
- CE marking

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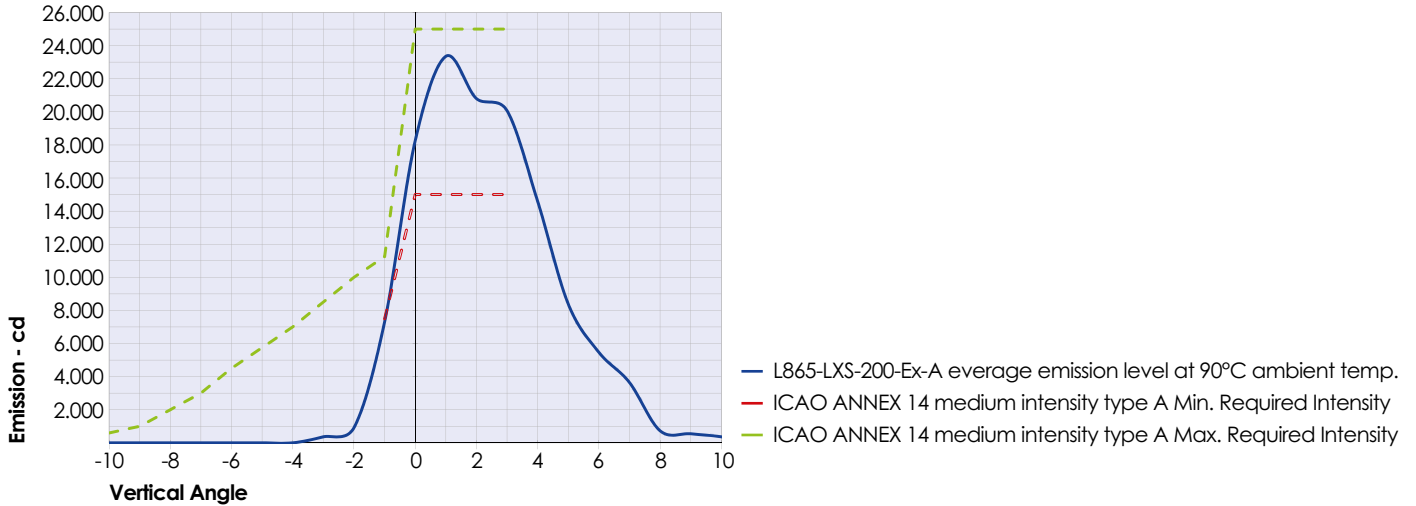
- ICAO Aerodromes -Annex 14 Vol. 1, Chapter 6: Medium intensity, Type A flashing obstacle light MIOL-A type
- FAA AC150/5345-43F E.B. #67 Lamp type L-865
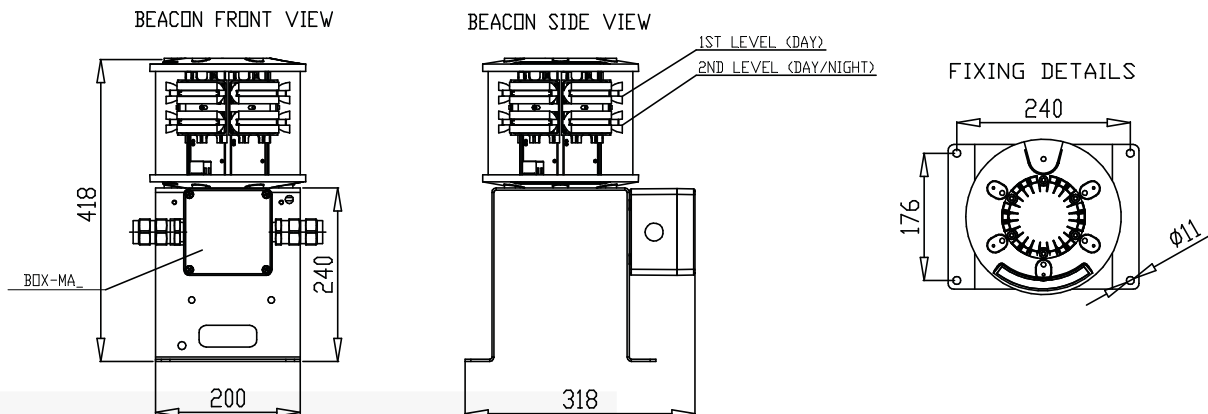- EASA CS-ADR-DSN, Chapter Q

ORDER CODE

L865-LXS-200-Ex- [1] [2] [8] [4]

Single white flashing light = A
Twin white flashing light = AT

180° = 1
360° = 2

8 = Power Supply from Control Panel

Z1 = Zone 1
Z2 = Zone 2

rev_ 250108_A

MEDIUM INTENSITY

MIOL-A Ex eb mb op is
TECHNICAL SPECIFICATIONS

Emission - cd (y-axis: 2.000 – 26.000)
Vertical Angle (x-axis: -10 to 10)

— L865-LXS-200-Ex-A everage emission level at 90°C ambient temp.
— ICAO ANNEX 14 medium intensity type A Min. Required Intensity
— ICAO ANNEX 14 medium intensity type A Max. Required Intensity

SINGLE VERSION

BEACON FRONT VIEW

418
BOX-MA_
240
200

BEACON SIDE VIEW

1ST LEVEL (DAY)
2ND LEVEL (DAY/NIGHT)
318

FIXING DETAILS

240
176
Ø11

TWIN VERSION

BEACON FRONT VIEW

485
BOX-MA_
240
200

BEACON SIDE VIEW

1ST LEVEL NORMAL
2ND LEVEL NORMAL
3RD LEVEL EMERGENCY
4TH LEVEL EMERGENCY
318

rev_
250108_A

lxs@luxsolar.com - www.luxsolar.com - Ph. +39.0341.260926
This catalogue is intended for commercial purposes only. For hazardous area equipments and components, the relevant standards, the relevant certificates and the relevant operating and maintenance instructions, must be followed. Changes or mistakes do not justify any claim for damage compensation.

4