

LUXSOLAR® CATALOGUE

Hazardous Area LED Aircraft Warning Light



www.luxsolar.com

Luxsolar[®] is a department of CE2K S.r.l.

LUXSOLAR



Luxsolar and LXS - registered trademarks of CEZK S.r.l. - identify a series of special lighting suitable both for potentially explosive atmospheres and safe areas.

Today, after a decade marked by a growing global market presence, Luxsolar has become the first manufacturer of LED Aircraft Warning Lights offering a complete range from low to high intensity. All LUXSOLAR products, designed and manufactured in Italy, are the result of a constant R&D activity performed in-house.

Lussolar mission is to create innovative products that combine high-tech and sustainable features. Our aim is to offer tailor-made lighting solutions in compliance to local and international regulations for airports, heliports, marine environments and elevated structures.

holice

LUXSOLAR #everything is made for passion

LUXSOLAR

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AIRCRAFT WARNING LIGHTS FOR HAZARDOUS AREAS

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CONTACTS

CE2K S.r.I.		
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LOW INTENSITY OBSTRUCTION LIGHT



As specified by Annex 14 of ICAO regulation, Low Intensity Obstruction Lights (LIOL) should be used to warn the presence of obstacles up to 45m height, such as chimneys, cranes, flares and other structures.

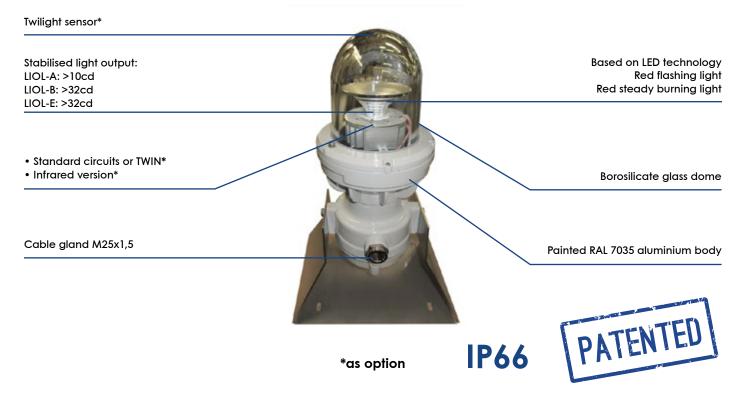
Low Intensity Obstruction Lights are the simplest devices according to ICAO standards and they have the following characteristics and uses:

- LIOL Type A (intensity >10cd, red steady burning) can be used alone;
- LIOL Type B (intensity >32cd, red steady burning), can be used either alone or in combination with medium intensity obstacle lights Type B or Type AB;
- LIOL Type E (intensity >32cd, red flashing), can be used either alone or in combination with medium intensity obstacle lights, Type B. Flashing rate will be set at the same rate of other flashing beacons installed on the structure.



This catalogue is intended for a

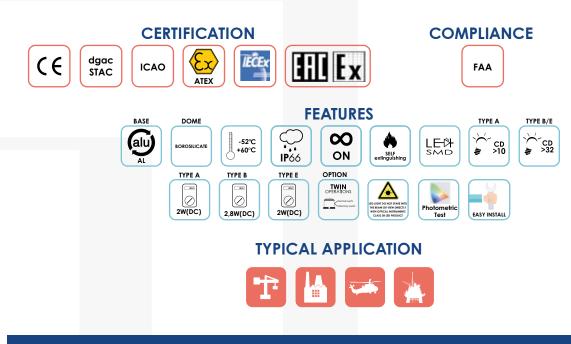
LIOL-A EX/LIOL-B EX/LIOL-E EX LOW INTENSITY OBSTRUCTION LIGHT



LUXSOLARL810-LXS-ExLowIntensityObstructionLightisfullycomplianttoICAO/EASA(LowIntensity-TypeA, B or E), FAA (Type L-810), and ATEX - IECEx - TRCU certified.

The light fixture is designed for hazardous areas Zone 1/21, 2/22 with Ex db IIC and Ex tb IIIC protection, compliant to EN/IEC60079-0, EN/IEC60079-1 and EN/IEC60079-31 standards.

With a compact body, high quality and **ultra-bright LEDs**, **optical reflector for an optimum beam spread**, LUXSOLAR L810-LXS-Ex product is **your best choice for an efficient**, **long life and reliable Aircraft Warning Obstacle Light**.



LIOL-A EX/LIOL-B EX/LIOL-E EX **TECHNICAL SPECIFICATIONS**

OPTICAL FEATURES

- Based on LED technology
- **RED light Steady Burning**
- RED light Flashing (LIOL-E)
- LIOL-A Ex: >10 cd
- LIOL-B/E Ex: >32 cd
- Cd emission: +6° and +10°
- Horizontal beam radiation: 360°
- Vertical beam spread: >10°
- **Optical reflector**

MECHANICAL FEATURES

- Painted RAL 7035 aluminium body
- Borosilicate glass dome
- Degree of protection: IP66
- Operating temperature: -52°C to +60°C
- Lamp unit weight: 7kg
- **ATEX** marking:
- II 2GD Ex de IIC T4 Gb, Ex tb IIIC T135°C Db **IECEx marking:**
- Ex de IIC T4 Gb, Ex tb IIIC T135°C Db
- **TRCU** marking: 1 Ex de IIC T4 Gb, Ex tb IIIC T135°C Db

ELECTRICAL FEATURES

- Power supply AC or DC or from Luxsolar **Control Panel**
- Power consumption LIOL-A: 2W @12/24Vdc
- Power consumption LIOL-B: 2,8W @12/24Vdc
- Power consumption LIOL-E: 2W @12/24Vdc
- LED feeded at costant current

OPTIONS

- TWIN version: two separate LED circuits in the same fixture (normal + stand-by)
- Automatic changeover from normal to backup light
- Fault contact
- IR Wavelength 850nM, compatible with pilot's NVG

APPLY TO

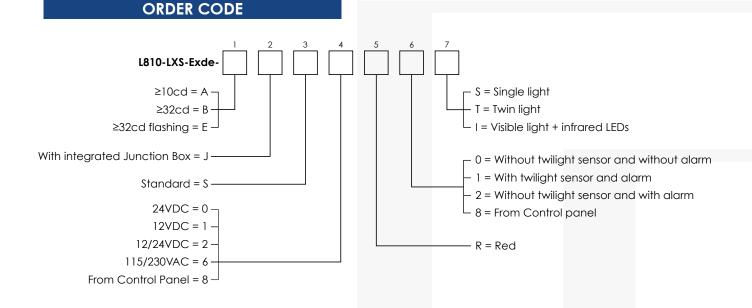
- Stack
- **Offshore Platform**
- Chimney
- Tower crane
- Chemical and
- petrochemical plant

CERTIFICATIONS

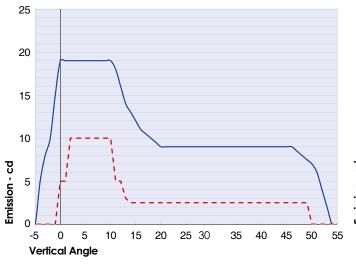
- ATEX certificate
- IECEx certificate
- **TRCU** certificate
- ICAO/EASA test report (EN 17025 marking laboratory) nr. 326-QL20-R05/R06
- CE marking

COMPLIANCE

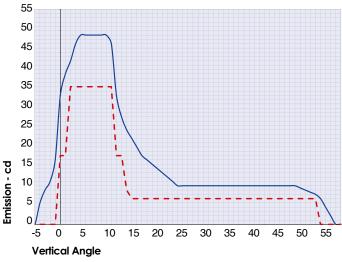
- ICAO Aerodromes -Annex 14 Volume 1, Chapter 6: Low intensity, Type A-B steady burning obstacle light, Type E flashing obstacle light
- FAA AC150/5345-43; E.B. #67 type L-810
- EASA CS-ADR-DSN, Chapter Q



LIOL-A EX/LIOL-B EX/LIOL-E EX TECHNICAL SPECIFICATIONS

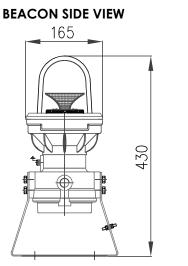


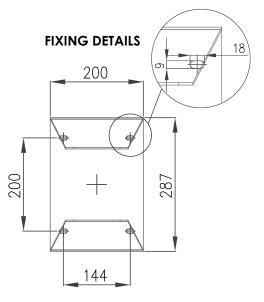
---- ICAO ANNEX 14 low intensity type A Minimum Required Intensity

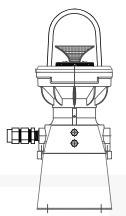


ICAO ANNEX 14 low intensity type B Minimum Required Intensity

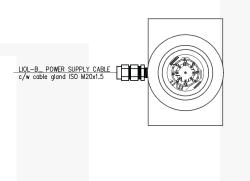
BEACON FRONT VIEW







BEACON TOP VIEW



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.

SS316 LOW INTENSITY OBSTRUCTION LIGHT



As specified by Annex 14 of ICAO regulation, Low Intensity Obstruction Lights (LIOL) should be used to warn the presence of obstacles up to 45m height, such as chimneys, cranes, flares and other structures.

Low Intensity Obstruction Lights are the simplest devices according to ICAO standards and they have the following characteristics and uses:

- LIOL Type A (intensity >10cd, red steady burning) can be used alone;
- LIOL Type B (intensity >32cd, red steady burning), can be used either alone or in combination with medium intensity obstacle lights Type B, Type AB or with high intensity obstacle lights Type AB;
- LIOL Type E (intensity >32cd, red flashing), can be used either alone or in combination with medium intensity obstacle lights, Type B. Flashing rate will be set at the same rate of other flashing beacons installed on the structure.



Ixs@luxsolar.com - www.luxsolar.com - Ph. +39.0341.260926 ial purposes only. For hazardous area equipments and components, the relevant standards, the relevant certificates and the intenance instructions. must be followed. Changes or mistakes do not justify any claim for damage compensation.

This catalogue is intended for

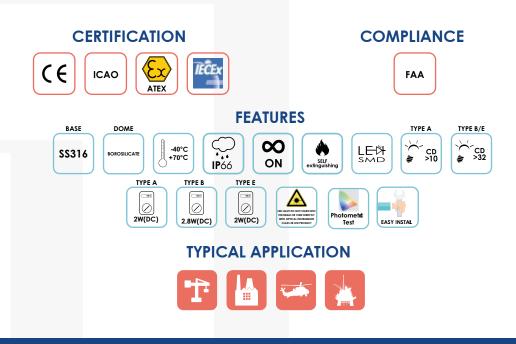
SS316 LIOL-A EX/LIOL-B EX/LIOL-E EX LOW INTENSITY OBSTRUCTION LIGHT



LUXSOLARL810-LXS-ExLowIntensityObstructionLightisfullycomplianttoICAO/EASA(LowIntensity-TypeA,BorE),FAA (Type L-810), and ATEX - IECEx certified.

The light fixture is designed for hazardous areas Zone 1/21, 2/22 with Ex db IIC and Ex tb IIIC protection, compliant to EN/IEC60079-0, EN/IEC60079-1 and EN/IEC60079-31 standards.

With a compact body, high quality and **ultra-bright LEDs**, **optical reflector for an optimum beam spread**, LUXSOLAR L810-LXS-Ex-SS product is **your best choice for an efficient**, **long life and reliable Aircraft Warning Obstacle Light**.



SS316 LIOL-A EX/LIOL-B EX/LIOL-E EX **TECHNICAL SPECIFICATIONS**

OPTICAL FEATURES

- Based on LED technology
- **RED light Steady Burning**
- LIOL-A Ex: >10 cd
- LIOL-B Ex: >32 cd LIOL-E Ex: >32 cd
- Cd emission: +6° and +10°
- Horizontal beam radiation: 360°
- Vertical beam spread: >10°
- **Optical reflector**

MECHANICAL FEATURES

- SS316 natural finish body
- Borosilicate glass dome
- Degree of protection: IP66
- Operating temperature: -40°C to +70°C
- Lamp unit weight: 7kg ATEX marking: II 2GD Ex d IIC T4 ~ T6 Gb,
 - Ex tb IIIC T135°C ~T85°C
- **IECEx marking:** Ex d IIC T4 ~ T6 Gb, Ex tb IIIC T135°C ~T85°C

ELECTRICAL FEATURES

- Power supply AC or DC or from Luxsolar **Control Panel**
- Power consumption LIOL-A: 2W @12/24Vdc
- Power consumption LIOL-B: 2,8W @12/24Vdc
- Power consumption LIOL-E: 2W @12/24Vdc
- LED feeded at costant current

ORDER CODE

APPLY TO

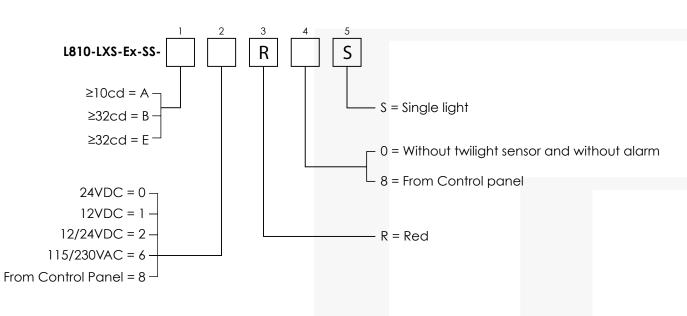
- Stack
- **Offshore Platform**
- Chimney
- Tower crane
- Chemical and
- petrochemical plant

CERTIFICATIONS

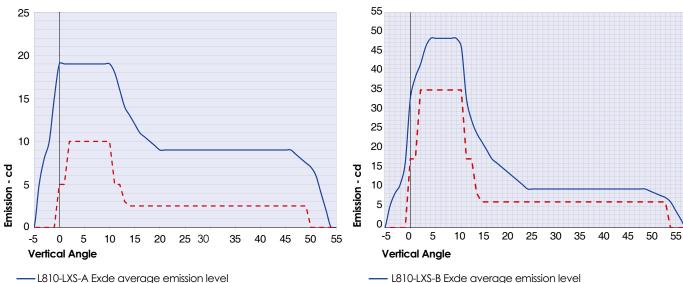
- ATEX certificate
- **IECEx** certificate
- ICAO/EASA test report (EN 17025 marking laboratory) nr. 326-QL20-R05/R06
- **CE** marking

COMPLIANCE

- ICAO Aerodromes -Annex 14 Volume 1, Chapter 6: Low intensity, Type A-B steady burning obstacle light, Type E flashing obstacle light
- FAA AC150/5345-43; E.B. #67 type L-810
- EASA CS-ADR-DSN, Chapter Q

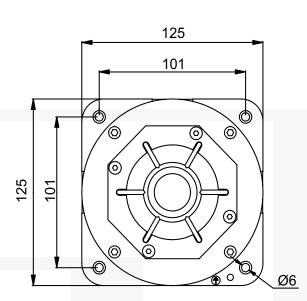


SS316 LIOL-A EX AND LIOL-B EX TECHNICAL SPECIFICATIONS



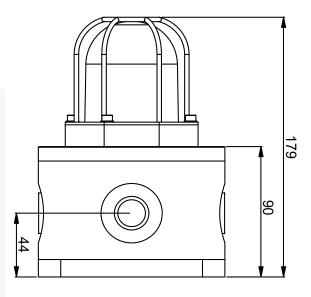
--- ICAO ANNEX 14 low intensity type A Minimum Required Intensity

— L810-LXS-B Exde average emission level
— ICAO ANNEX 14 low intensity type B Minimum Required Intensity



TOP VIEW

LATERAL VIEW



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.

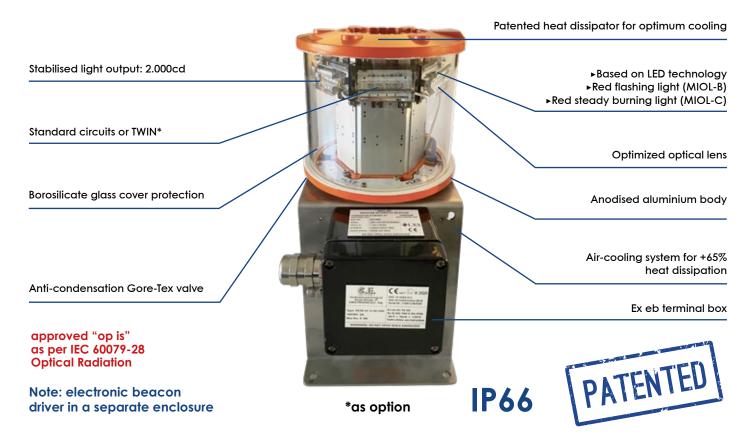
LUXSOLAR offers to its customers also **DUAL type beacons in the same light fixture**, **suitable to be used during the day (with white LEDs) and during the night (with red LEDs)**; these beacons are:

- 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.



This catalogue is intended for

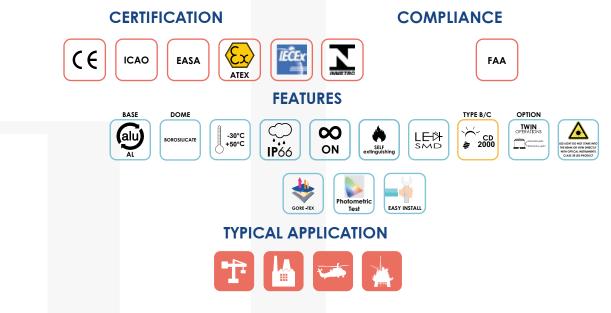
MIOL-B EX eb mb op is/MIOL-C EX eb mb op is



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

With a compact body, high quality and ultra-bright LEDs, customised lenses for an optimum beam spread, LUXSOLAR MIOL-B/C 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 60079-31** regulations. **It is suitable for hazardous areas Zone 1**, **Zone 21**, **Zone 22** where potentially explosive atmosphere due to the presence of flammable and explosive vapours, gas or dust may be present.



MIOL-B Ex eb mb op is/MIOL-C Ex eb mb op is **TECHNICAL SPECIFICATIONS**

OPTICAL FEATURES

- Based on LED technology
- RED light 2.000cd
- 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 the IIIC T80°C Db - 11 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 the 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 for MIOL-B Ex: - @20fpm: 1,5W
 - @40fpm: 3W
 - @60fpm: 4,5W
- Average power consumption for MIOL-C Ex (Steady Burning): 21W
- LED feeded at constant current
- No RF-radiations

Tower crane petrochemical plant CERTIFICATIONS

- ATEX certificate
- **IECEx** certificate
- **INMETRO** certificate
- EASA test report (EN 17025 laboratory) nr. 326-QL20-R09/R10
- **CE** marking

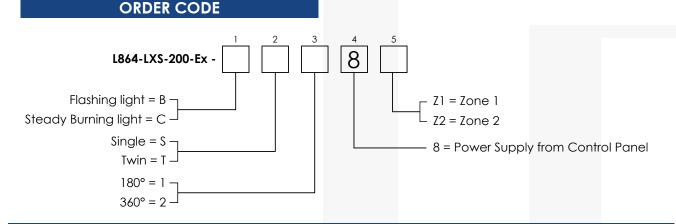
COMPLIANCE

OPTIONS

same fixture (normal + stand-by)

TWIN version: two separate LED circuits in the

- ICAO Aerodromes -Annex 14 Vol. 1, Chapter 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 CS-ADR-DSN, Chapter Q



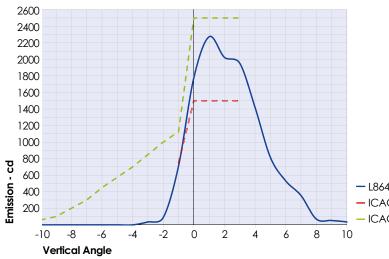
APPLY TO **Offshore Platform**

- Chimney

Stack

Chemical and

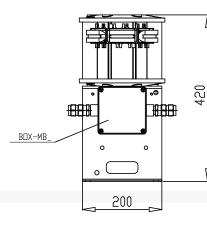
MIOL-B Ex eb mb op is/MIOL-C Ex eb mb op is TECHNICAL SPECIFICATIONS

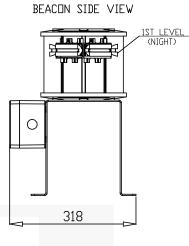


L864-LXS-200-Ex-B/C average emission level at 90°C ambient temp.
 ICAO ANNEX 14 medium intensity type B/C Min. Required Intensity
 ICAO ANNEX 14 medium intensity type B/C Max. Required Intensity

SINGLE VERSION



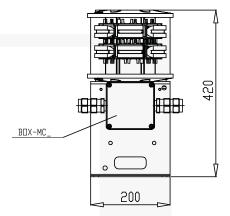


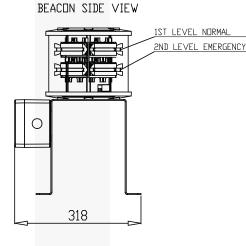


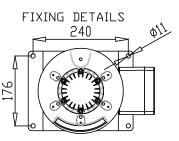
FIXING DETAILS

TWIN VERSION

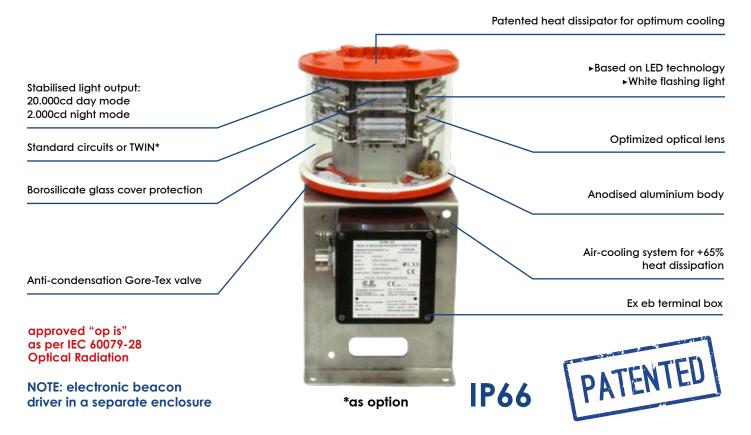
BEACON FRONT VIEW







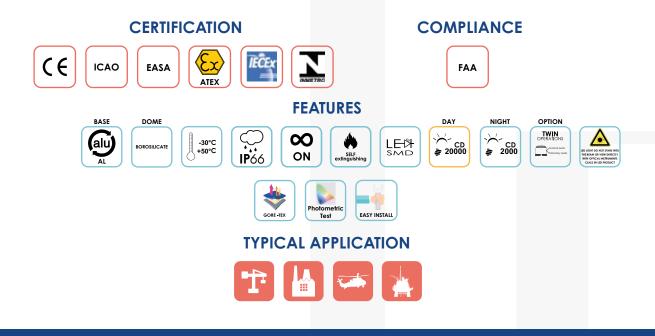
MIOL-A Ex eb mb op is



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 22, Zone 22 where potentially explosive atmosphere due to the presence of flammable and explosive vapours, gas or dust may be present.



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 the 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 the 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

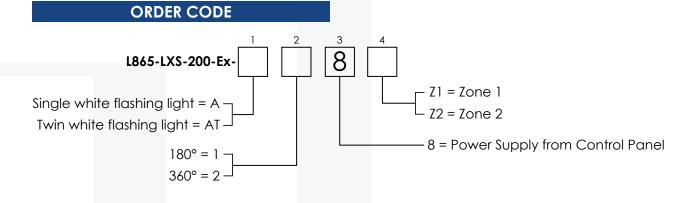
- Stack
 - Chimney
- Offshore Platform
- Tower crane
- Chemical and
- petrochemical plant

CERTIFICATIONS

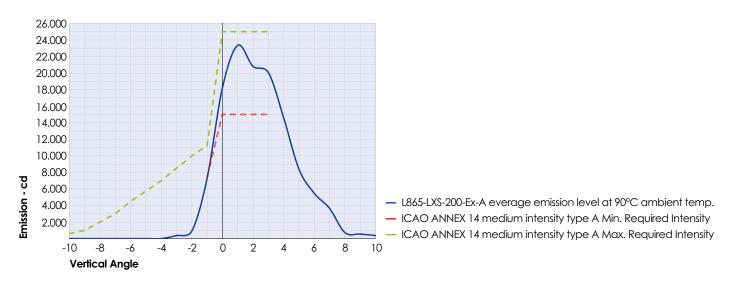
- ATEX certificate
- **IECEx** certificate
- **INMETRO** certificate
- **CE** marking

COMPLIANCE

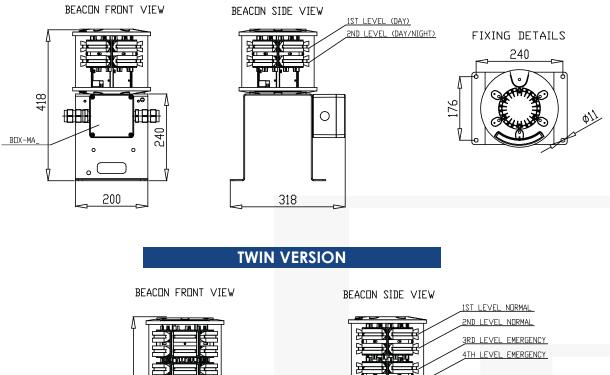
- ICAO Aerodromes -Annex 14 Vol. 1, Chapter 6: Medium intensity, Type A flashing obstacle light MIOL-A type
- FAA AC150/5345-43F E.B. #67 Lamp type L-865
- EASA CS-ADR-DSN, Chapter Q

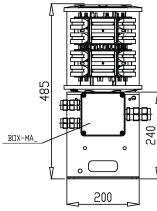


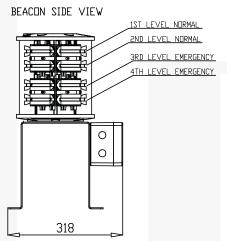
MIOL-A Ex eb mb op is TECHNICAL SPECIFICATIONS



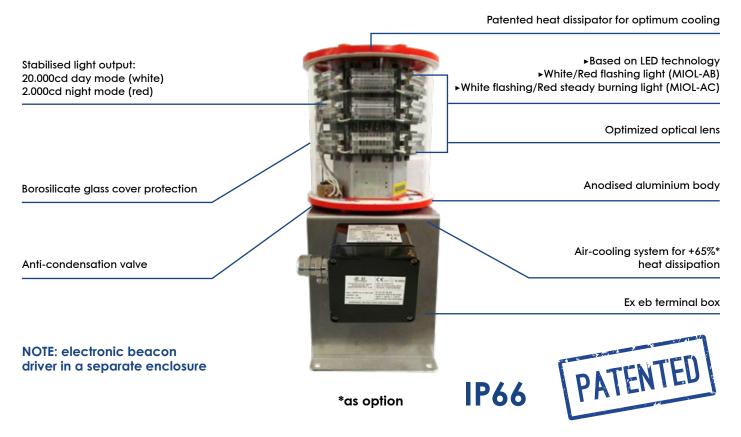
SINGLE VERSION







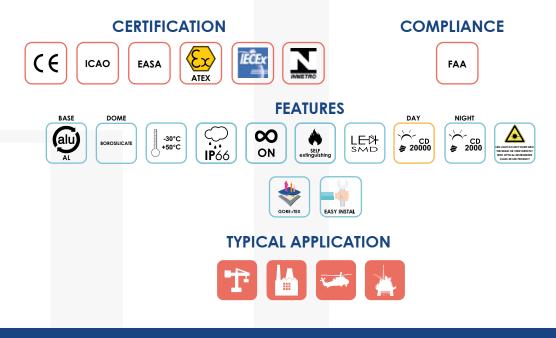
MIOL-AB Ex eb mb / MIOL-AC Ex eb mb



LUXSOLAR L864/L865-LXS Medium Intensity Obstruction Light is compliant to ICAO (Medium Intensity - Type AB or AC), FAA (Type L-864/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-AB/AC 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 IIC and Ex tb IIIC protection. ATEX, IECEx and INMETRO certified, compliant to EN/IEC 60079-0, EN/IEC 60079-7, EN/IEC 60079-18, 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.



MIOL-AB Ex eb mb /MIOL-AC Ex eb mb **TECHNICAL SPECIFICATIONS**

OPTICAL FEATURES

- Based on LED technology
- 20.000cd day mode, WHITE light
- 2.000cd night mode, RED light
- Horizontal beam radiation 360°
- Vertical beam spread 4°
- **PMMA** lens
- **ATEX marking:**
 - II 2GD Ex eb mb IIC T6 Gb; Ex tb IIIC T80°C Db
 - II 3GD Ex eb mc IIC T6 Gc; Ex tb IIIC T80°C Dc
- **IECEx marking:**
 - Ex eb mb IIC T6 Gb;
 - Ex tb IIIC T80°C Db
 - Ex eb mc 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 (as option)
- Degree of protection: IP66
- Anti-Condensation Valve
- Operating temperature: -30°C to +50°C
- Lamp unit weight: 12kg

ELECTRICAL FEATURES

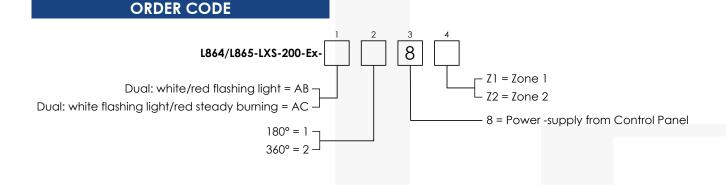
- Power supply by Luxsolar Control Panel: - 12/24 Vdc
 - 115/230 Vac
- Average power consumption:
 - @20fpm day mode: 45W (Miol-AB/Miol-AC)
 - @20fpm night mode: 10W (Miol-AB)
 - @40fpm day mode: 110W (Miol-AB/Miol-AC)
 - @40fpm night mode: 12W (Miol-AB)
 - @60fpm day mode: 160W (Miol-AB/Miol-AC)
 - @60fpm night mode: 16W (Miol-AB)
 - night mode (stedy) Miol-AC: 54W
- LED feeded at constant current
- No RF-radiations

APPLY TO

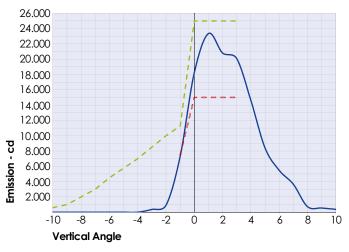
- Stack
- Chimney
- **Offshore Platform**
- Tower crane
- Chemical and
 - petrochemical plant
- ATEX certificate
- **IECEx** certificate
- **INMETRO** certificate
- **CE** marking

COMPLIANCE

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



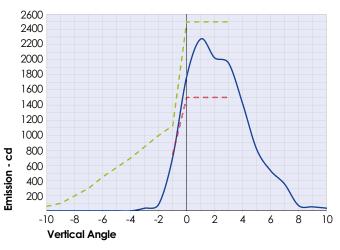
MIOL-AB Ex eb mb /MIOL-AC Ex eb mb TECHNICAL SPECIFICATIONS



- L865-LXS-200-Ex-A average emission level at 90°C ambient temp.

- ICAO ANNEX 14 medium intensity type A Min. Required Intensity

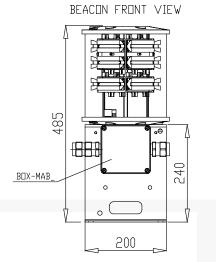
ICAO ANNEX 14 medium intensity A Max. Required Intensity

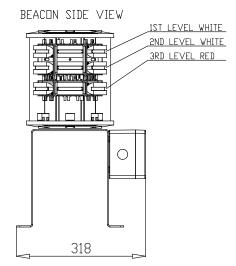


- L864-LXS-200-Ex-B average emission level at 90°C ambient temp.

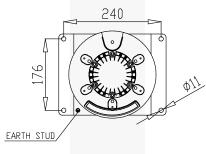
- ICAO ANNEX 14 medium intensity type B/C Min. Required Intensity

- ICAO ANNEX 14 medium intensity type B/C Max. Required Intensity





FIXING DETAILS



AWL SYSTEM CONTROL PANEL FOR CLASSIFIED AREAS (IIB OR IIB+H2)



An Aircraft Warning Light (AWL) system is a set of beacon(s) and electronic components wired and installed inside dedicated enclosures.

At LUXSOLAR we belive that every installation and maintenance activity has to be as simple, as quick and as safe as possible. This is the philosophy at the base of our AWL Systems and this is the reason why all our electronic components (specifically designed to properly drive our beacons) are not inside the lamp body but inside a control panel/controller box.

Advantages:

This catalogue is intended for c

- Easy maintenance: periodic check activity is done in easy accessible areas.
- Longer life: beacons are often installed in areas subject to heat, smoke, harsh conditios that may affect electronic components life. Install cards and drivers in a protected case has positive results on the whole AWL system's life.



CONTROL PANEL FOR AWL SYSTEM FOR CLASSIFIED AREAS (IIB OR IIB+H2)

Aluminium or \$\$316L material

IP66 protection degree



Customizable according client specification

The installation of multiple devices on the same obstacle is defined "**System**" and a control panel that contains all the necessary elements for a proper operation is necessary.

The **control panel helps to simplify both core management tasks** (start up, check anomalies, etc.) and **maintenance**. Beacons can be managed by one or several panels, according to installation requirements or project specifications.

Luxsolar control panels manufactured and branded CE2K S.r.l., for classified areas are available with: ATEX, IECEx, Tr Cu, INMETRO and PESO certificates.



This catalogue is intended for

CONTROL PANEL FOR AWL SYSTEM TECHNICAL SPECIFICATIONS

STANDARD FEATURES

- Copper free aluminium or \$\$316L material
- Suitable for wall mounting (standard)
- Degree of protection: IP66
- Operating temperature:
 -20C° to +60C° with window;
 -50C° to +60C° without window

ELECTRICAL FEATURES

- Main isolating switch for power supply 110/230VAC 50/60Hz (other power supplies suitable);
- AUTO/MAN switch to override photocell (if any);
- Module for simultaneous flashing (if any);
- Beacon fault contacts available on terminals;
- Local LED indicator for Power On (If any);
- Power electronics to feed the beacons;
- Overvoltage protection (lightning protection);
- Twilight sensor

OPTIONAL FEATURES

- GPS module for wireless synchronization among two or more AWL Systems;
- Beacon(s) fault contact available on front door;
- Thermostatic heater and hygrostat;
- Internal winterization (for extreme cold climate);
- Astronomic clock

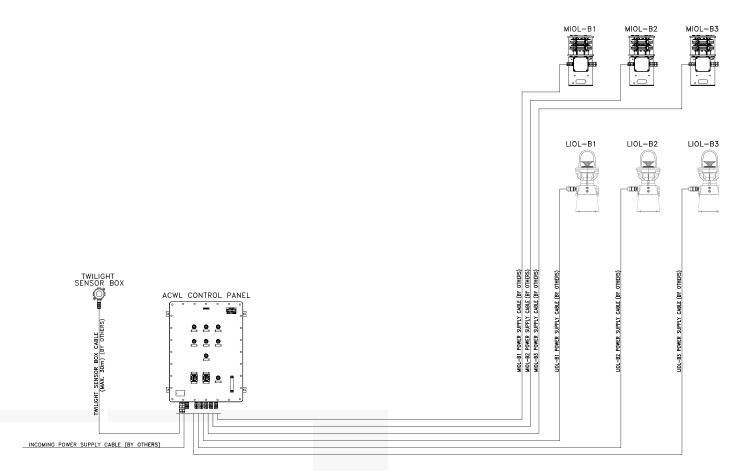
DESIGN

Our tecnichal Team can assist you in the design, as per aviation rules, of your AWL System.

For any additional information please contact: Ixs@luxsolar.com

CONTROL PANEL FOR AWL SYSTEM TECHNICAL SPECIFICATIONS

TIPYCAL DRAWING:



AWL SYSTEM CONTROL PANEL FOR CLASSIFIED AREAS (IIC)



An Aircraft Warning Light (AWL) system is a set of beacon(s) and electronic components wired and installed inside dedicated enclosures.

At LUXSOLAR we belive that every installation and maintenance activity has to be as simple, as quick and as safe as possible. This is the philosophy at the base of our AWL Systems and this is the reason why all our electronic components (specifically designed to properly drive our beacons) are not inside the lamp body but inside a control panel/controller box.

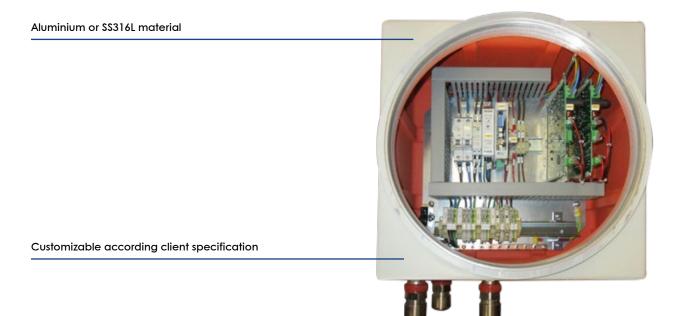
Advantages:

This catalogue is intended for c

- Easy maintenance: periodic check activity is done in easy accessible areas.
- Longer life: beacons are often installed in areas subject to heat, smoke, harsh conditios that may affect
 electronic components life. Install cards and drivers in a protected case has positive results on the whole AWL
 system's life.



CONTROL PANEL FOR AWL SYSTEM FOR CLASSIFIED AREAS (IIC)



The installation of multiple devices on the same obstacle is defined "System" and a control panel that contains all the necessary elements for a proper operation is necessary.

The control panel helps to simplify both core management tasks (start up, check anomalies, etc.) and the **maintenance**. Beacons can be managed by one or several panels, according to installation requirements or project specifications.

Luxsolar control panels manufactured and branded CE2K S.r.l., for classified areas are available with: ATEX, IECEx, Tr Cu, INMETRO and PESO certificates.



This catalogue is intended for a

CONTROL PANEL FOR AWL SYSTEM TECHNICAL SPECIFICATIONS

STANDARD FEATURES

- Copper free aluminium or \$\$316L material
- Suitable for wall mounting (standard)
- Operating temperature: -20C° to +60C°; -50C° to +60C°
 - **ELECTRICAL FEATURES**
- Main Ex-d Box:
 - Module for simultaneous flashing (if any);
 - Beacon fault contacts available on terminals;
 - Power electronics to feed the beacons;
 - Overvoltage protection (lightning protection);
- Operator Ex-e Box:
 - Main isolating switch for power supply 110/230VAC 50/60Hz (other power supplies suitable);
 AUTO/MAN switch to override photocell
 - (if any);
- Local LED indicator for Power On (If any);

OPTIONAL FEATURES

- GPS module for wireless synchronization among two or more AWL Systems;
- Thermostatic heater and hygrostat;
- Internal winterization (for extreme cold climate);
- Astronomic clock or twilight sensor.





Ex-d Gub enclousure with its Ex-e operator box

Note: Ex-e operator box covered by separate certificate.



DESIGN

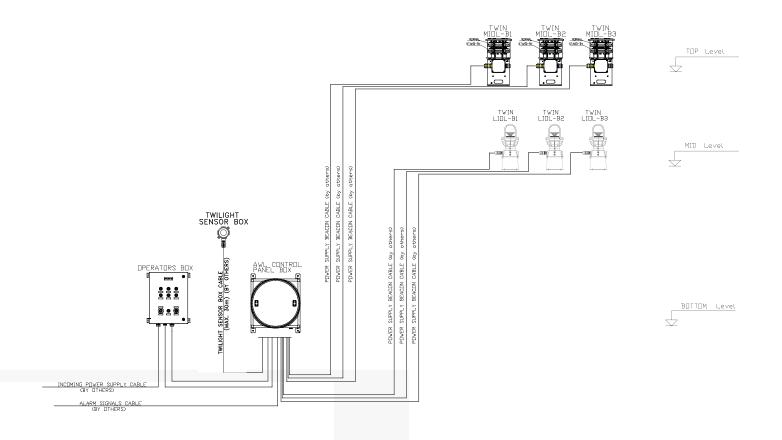
Our tecnichal Team can assist you in the design, as per aviation rules, of your AWL System.

For any additional information please contact: Ixs@luxsolar.com

Ixs@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.

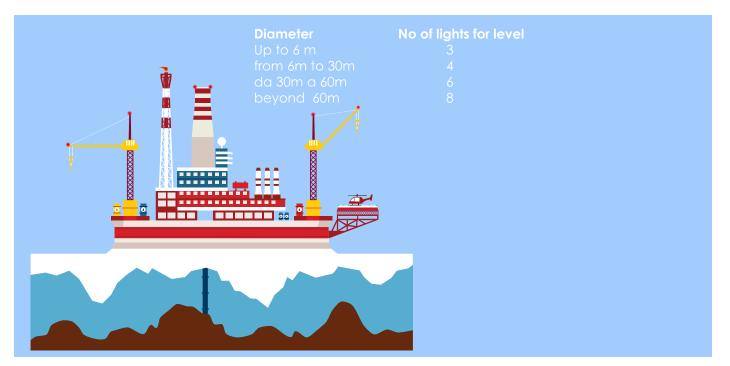
CONTROL PANEL FOR AWL SYSTEM TECHNICAL SPECIFICATIONS

TIPYCAL DRAWING:

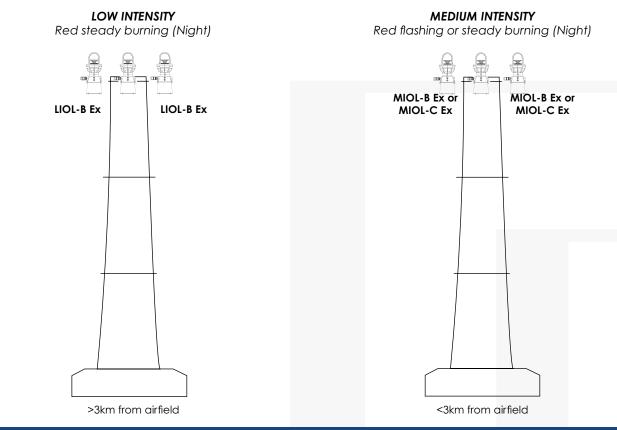


LIGHT POSITIONING

ICAO regulation Annex 14, Vol. 1 and Annex 6, specifies that – on the basis of their height and kind of marking, obstacles may require beacons installed on several levels (top, middle, etc.). The number of beacons required for each level depends on the external diameter of the structure and is suggested in the following chart:

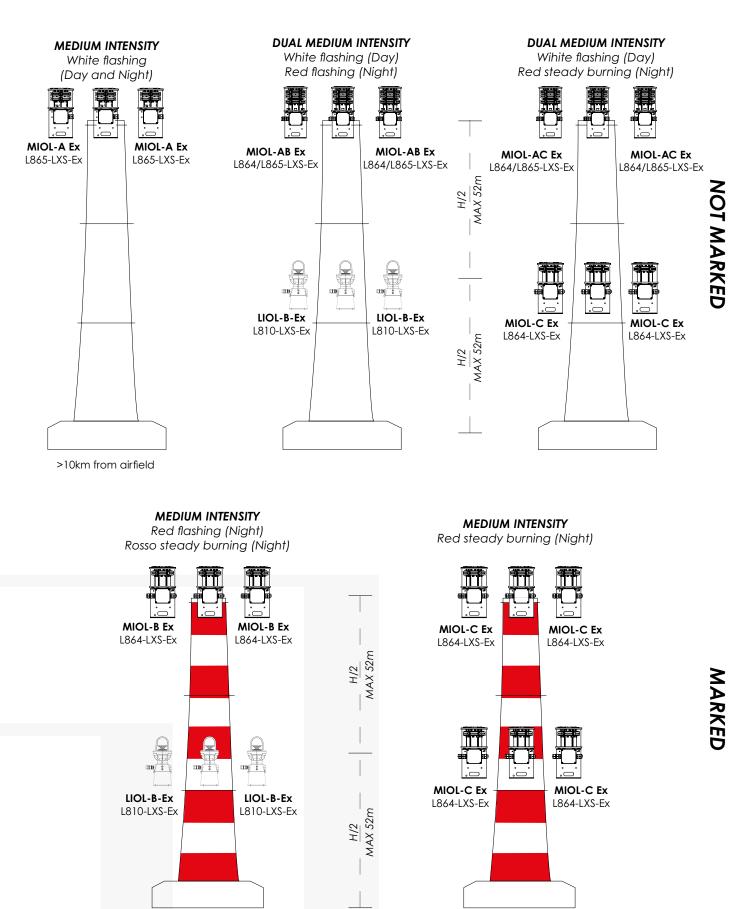


ELEVATED STRUCTURES <45m



NOT MARKED

ELEVATED STRUCTURES FROM 45M TO 105M

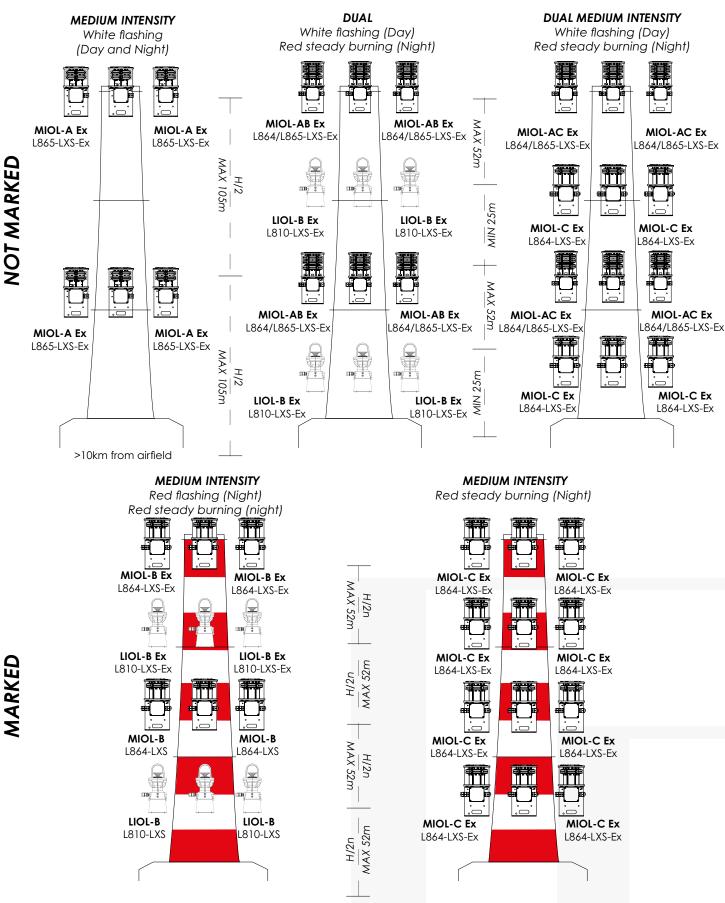


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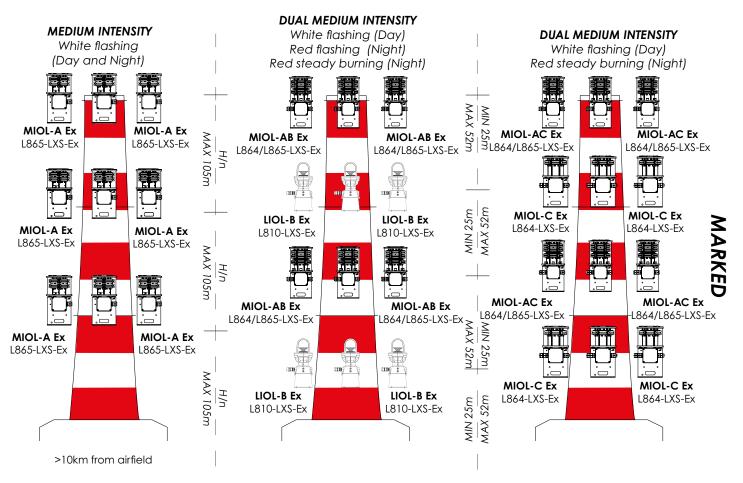
250108

ELEVATED STRUCTURES FROM 105M TO 150M



rev_ 250108

ELEVATED STRUCTURES >150M



NOTE: For structures above 150mt, if not possible use HIOL beacons, structure must be marked.

OFFSHORE PLATFORM



Offshore Platform



Chemical and Petrochemical Plants

ant certificates and the

the rele

This catalogue is intended for relevant operating









CONTACTS

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- Linkedin: Luxsolar Italia



- YouTube: Luxsolar





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www.luxsolar.com