

HEMS OF

HELICOPTER EMERGENCY MEDICAL SERVICE

NIGHT LIGHTING





Night Lighting System HEMS applicable to helipads and helidecks, both on ground level and elevated

INDEX

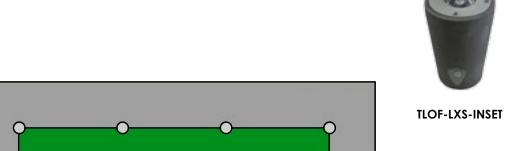
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TYPICAL INSTALLATION GROUND HEMS

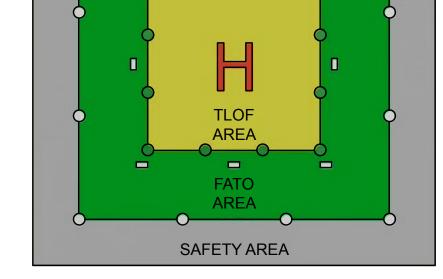
SQUARE FATO AREA – SQUARE TLOF AREA













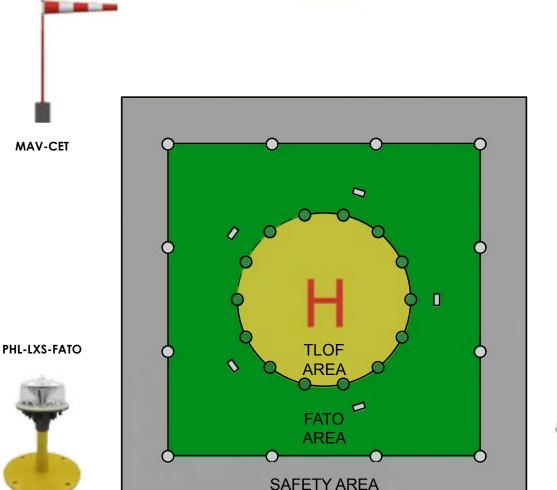


LEGEND

- OPHL-LXS-FATO or FATO-LXS-INSET typical quantity required: 12 pieces*
- TLOF-LXS-INSET typical quantity required: 12 pieces*
- □ HFL-LXS-10K typical quantity required: 8 pieces*
- MAV-CET typical quantity required: 1 piece
- HB-LXS typical quantity required: 1 piece (optional)
- L854-LXS typical quantity required: 1 piece (optional)
- CLOUD typical quantity required: 1 piece (optional)

TYPICAL INSTALLATION GROUND HEMS

SQUARE FATO AREA - CIRCULAR TLOF AREA





TLOF-LXS-INSET

HFL-LXS-10K

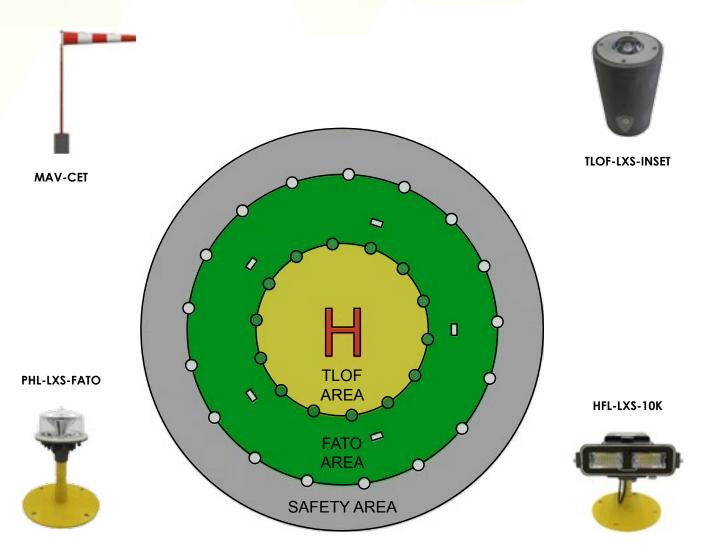


IEGENE

- OPHL-LXS-FATO or FATO-LXS-INSET typical quantity required: 12 pieces*
- TLOF-LXS-INSET typical quantity required: 14 pieces*
- □ HFL-LXS-10K typical quantity required: 5 pieces*
- MAV-CET typical quantity required: 1 piece
- HB-LXS typical quantity required: 1 piece (optional)
- L854-LXS typical quantity required: 1 piece (optional)
- CLOUD typical quantity required: 1 piece (optional)

TYPICAL INSTALLATION GROUND HEMS

CIRCULAR FATO AREA - CIRCULAR TLOF AREA



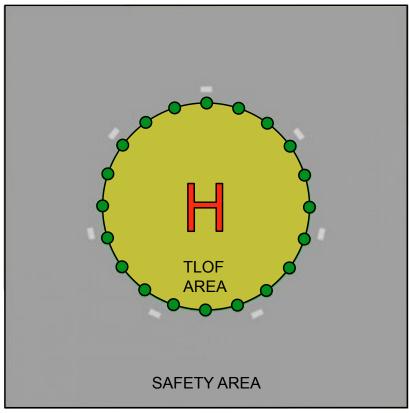
LEGEND

- OPHL-LXS-FATO or FATO-LXS-INSET typical quantity required: 17 pieces*
- TLOF-LXS-INSET typical quantity required: 14 pieces*
- □ HFL-LXS-10K typical quantity required: 5 pieces*
- MAV-CET typical quantity required: 1 piece
- HB-LXS typical quantity required: 1 piece (optional)
- L854-LXS typical quantity required: 1 piece (optional)
- CLOUD typical quantity required: 1 piece (optional)

TYPICAL INSTALLATION ELEVATED HEMS

SAFETY SQUARE AREA - CIRCULAR TLOF AREA







TLOF-LXS-INSET

HB-LXS







IEGENE

■ TLOF-LXS-INSET typical quantity required 20 pieces*

□ HFL-LXS-10K typical quantity required 7 pieces*

MAV-CET typical quantity required: 1 piece

HB-LXS typical quantity required: 1 piece (optional)

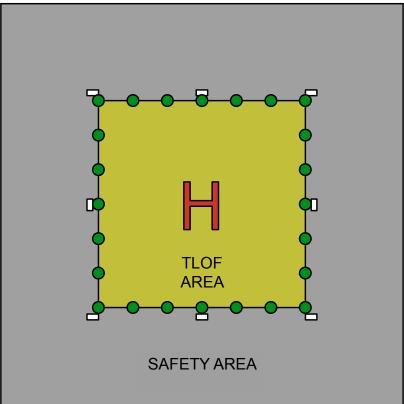
L854-LXS typical quantity required: 1 piece (optional)

cloud typical quantity required: 1 piece (optional)

TYPICAL INSTALLATION ELEVATED HEMS

SQUARE SAFETY AREA – SQUARE TLOF AREA







TLOF-LXS-INSET

HFL-LXS-10K



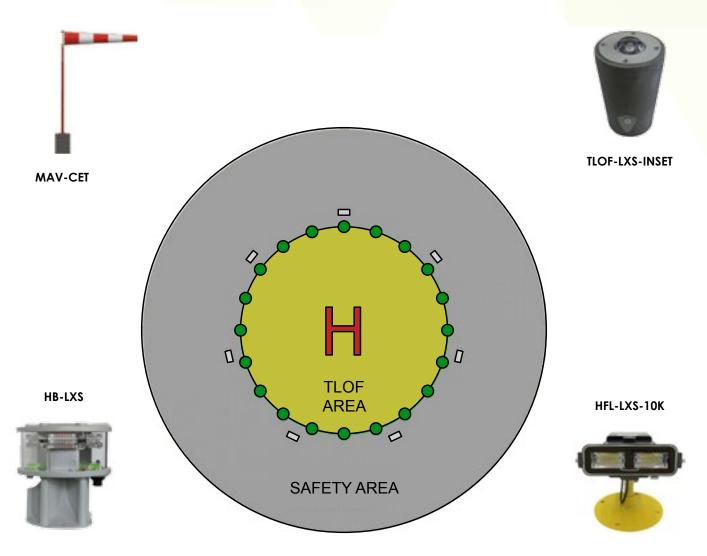
IEGEND

HB-LXS

- TLOF-LXS-INSET typical quantity required: 24 pieces*
- □ HFL-LXS-10K typical quantity required: 8 pieces*
- MAV-CET typical quantity required 1 piece
- HB-LXS typical quantity required: 1 piece (optional)
- L854-LXS typical quantity required: 1 piece (optional)
- CLOUD typical quantity required: 1 piece (optional)

TYPICAL INSTALLATION ELEVATED HEMS

CIRCULAR SAFETY AREA - CIRCULAR TLOF AREA



LEGEND

■ TLOF-LXS-INSET typical quantity required: 20 pieces*

□ HFL-LXS-10K typical quantity required: 7 pieces*

- MAV-CET typical quantity required 1 piece
- HB-LXS typical quantity required: 1 piece (optional)
- L854-LXS typical quantity required: 1 piece (optional)
- cloud typical quantity required: 1 piece (optional)

FATO PERIMETER LIGHT PHL-LXS-FATO

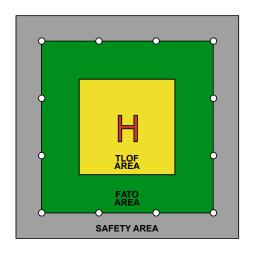


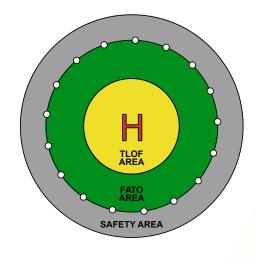
It is installed at the edges of FATO area, defining its perimeter. Alternatively, you can install the product code FATO-LXS-INSET.

- --- Steady white light
- --- Lifetime higher than 10 years
- --- Low consumption
- --- Stabilized light
- --- Compact and light structure
- → Simple installation
- → No RF radiations



INSTALLATION MAPS





LEGEND

O PHL-LXS-FATO

NOTE: for HEMS elevated surfaces, the FATO area coincides with TLOF area therefore, in the major part of installations, FATO perimeter lights are not provided.

CERTIFICATION



COMPLIANCE

EASA



FEATURES





















FATO PERIMETER LIGHT TECHNICAL SPECIFICATIONS

OPTICAL FEATURES

- 360°Horizontal emission
- Optical reflector

Angle	Light Intensity
30°	10 cd
25°	50 cd
20°	
10°	100 cd
3°	
0°	10 cd
-180° A	zimuth +180°

MECHANICAL FEATURES

- Anodized aluminium body with integrated
- heath-sink
- UV resistant Polycarbonate dome
- Polyurethane foam
- Degree of protection IP66
- Operating temperature: 20°C to 50°C
- Weight: 2,5 Kg
- Frangible support
- Gore-Tex anticondensation valve

ELECTRICAL FEATURES

- Power: 24VDC o 115/230Vac from control panel
- Consumption: 4W
- Constant current driven LED

OPTIONS

- Adjustable intensity 100%, 30%, 10% from control panel
- IR wavelength: 850nM, compatible with NVG pilot

CERTIFICAZIONE

CF

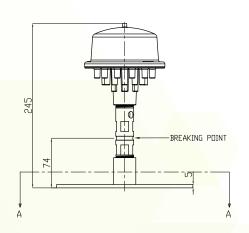
COMPLIANCE

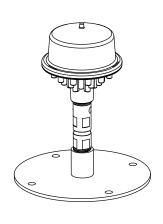
- ICAO Aerodromes -Annex 14 Volume 2, Heliports
- EASA CS-HPT-DSN

PRODUCT CODE

PHL-LXS-FATO

TECHNICAL DRAWING







rev

240108-A

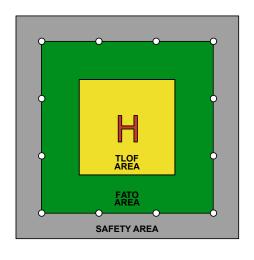
PERIMETER LIGHTS - FATO INSET FATO-LXS-INSET

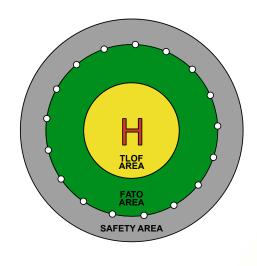


Installed at the edges of the FATO AREA, defining its perimeter. It has a recessed and driveway structure that requires the construction of a well inside the flooring of the surface. Alternatively, it is possible to install the product code PHL-LXS-FATO.

- → Steady white light
- --- Lifetime higher than 10 years
- --- Low consumption
- --- Stabilized light
- --- Compact and light structure
- → Simple installation
- → No RF radiations

INSTALLATION MAPS





LEGEND

O PHL-LXS-FATO

NOTE: for HEMS elevated surfaces, the FATO area coincides with TLOF area therefore, in the major part of installations, FATO perimeter lights are not provided.

CERTIFICATION



COMPLIANCE



FEATURES





















HEMS ILLUMINAZIONE NOTTURNA

PERIMETER LIGHTS - FATO INSET TECHNICAL SPECIFICATION

OPTICAL FEATURES

Horizontal Omission: 360° PMMA and glass lenses

Angle	Light Intensity
30°	10 cd
25°	50 cd
20°	
10°	100 cd
3°	
0°	10 cd

-180° Azimuth +180°

MECHANICAL FEATURES

- Anodized alluminium body
- EPDM o-ring
- Degree of protection IP66
- Shallow base 5"
- Operating temperature: -20°C to +60°C
- Supplied with 30cm LUXSOPLAR standard cable
- Weight: 4,8 Kg

240108-A

ELECTRICAL FEATURES

- Power: 12/24/48 VDC or 115/230Vac
- from control panel
- Consumption: 3,7W @12/24Vdc 4W
- Constat current driven LED

OPTIONS

- Adatptor for shallow base 8"/ 12"
- Wireless version
- IR wavelength: 850nM, compatible with NVG tolia

CERTIFICATION

CE

COMPLIANCE

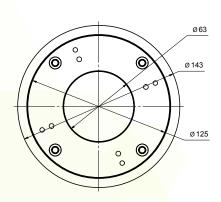
- ICAO Aerodromes Annex 14 Volume 2, Heliports
- EASA CS-HPT-DSN

PRODUCT CODE

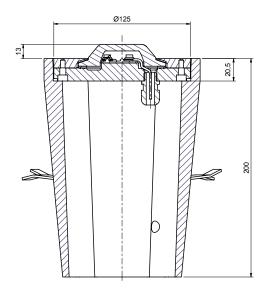
FATO-LXS-INSET FATO-LXS-INSET-8 FATO-LXS-INSET-WRL

TECHNICAL DRAWINGS

TOP VIEW



SIDE VIEW



HELIPORT FLOODLIGHT HFL-LXS-10K



Dimming illumination of the TLOF area surface.

- --- Lifetime higher than 10 years
- → Steady white light 10.000 cd
- --- Adjustable Emission Angle
- → Simple installation
- --- Possibility to vary the mounting angle

TECHNICAL SPECIFICATIONS

OPTCAL FEATURES

- Horizontal emission: 60°
- Vertical emission compliant to ICAO

MECHANICAL FEATURES

- Aluminium body with frangible support
- Protection degree: IP66
- Operating temperature: -20°C to +60°C
- Borosilicate protection

ELECTRICAL FEATURES

- Consumption: 24W
- Power:

12/24 Vdc or 110/230VAC 50/60Hz

CERTIFICATION

- C
- ICAO

COMPLIANCE

- ICAO, Annex 14, Vol. II, "Heliports"
- ICAO Heliport Manual
- ENAC, regulation "Costruzione ed esercizio degli eliporti"
- CAP437 "Standards for offshore helicopter landing areas", Appendix G

PRODUCT CODE

HFL-LXS-10K

CERTIFICATION



COMPLIANCE





FEATURES

















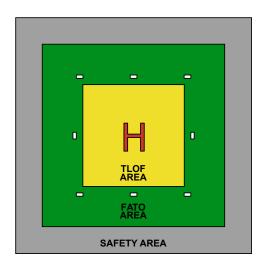


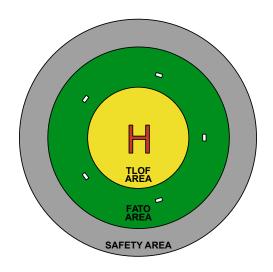


HELIPORT FLOODLIGHT INSTALLATION MAPS

FOR GROUND INSTALLATION

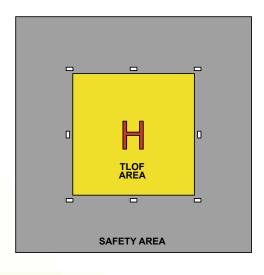
Floodlights must be installed inside the FATO area, where a maximum mounting height of 250mm and frangible structure is required. If installation within the FATO area is not possible, due to design requirements, FLOODLIGHT lights can be installed in the SAFETY AREA, with less stringent limitations regarding the mounting height.

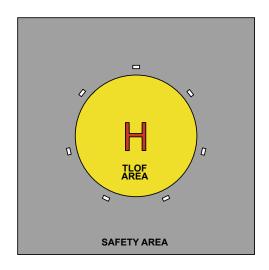




FOR ELEVATED INSTALLATIONS

In case of overhead installation, the TLOF area mostly coincides with the FATO area. Therefore, the installation of the FLOODLIGHT lights must be in the SAFETY AREA with a maximum height limit of 250mm and frangible structure.





LEGEND

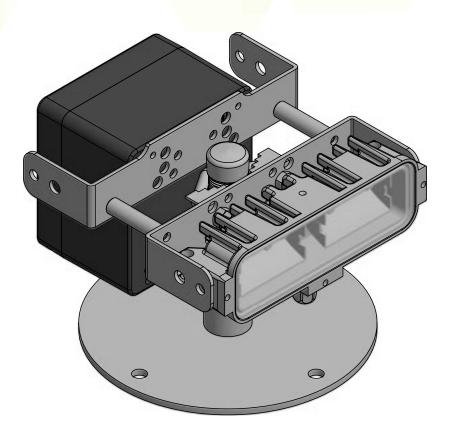
□ HFL-LXS-10K

The current international regulations (ICAO Annex 14, EASA CS HPT DSN, ENAC heliport regulations) provide for a minimum **illumination of the TLOF area of 10 LUX** and a maximum illumination uniformity ratio of 8:1.

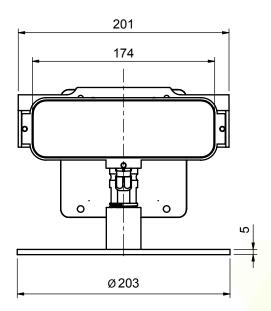
LUXSOLAR technicians are available to support the lighting calculation of any surface: led@luxsolar.com

240108-A

HELIPORT FLOODLIGHT TECHNICAL DRAWINGS

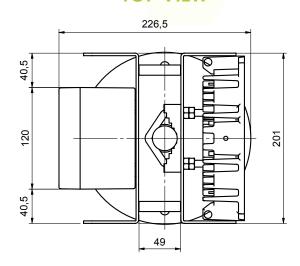


FRONT

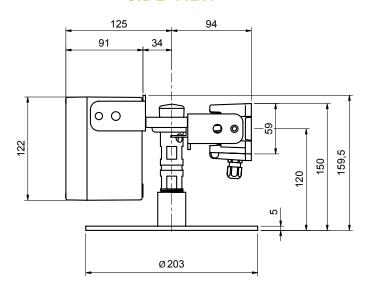


HELIPORT FLOODLIGHT TECHNICAL DRAWINGS

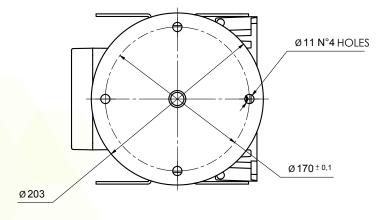
TOP VIEW



SIDE VIEW



INFERIOR VIEW



PERIMETER LIGHT - TLOF INSET TLOF-LXS-INSET

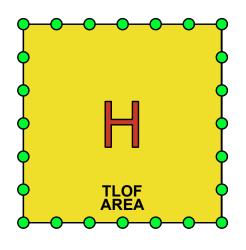


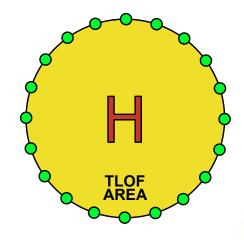
Defines the perimeter of TLOF. As it is built-in, it requires the construction of a well in the flooring of the surface. SUITABLE FOR BOTH GROUND AND ELEVATED HEMS PLATFORMS.

- --- Steady green light
- --- Lifetime higher than 10 years
- --- Low consumption
- ---> Stabilized light
- --- Compact and light structure
- --- Simple installation
- → No RF radiations



INSTALLATION MAPS





LEGEND

O TLOF-LXS-INSET

NOTE: the number of TLOF perimeter lights required by legislation is strictly dependent on the size of the TLOF area in question.

On elevated platforms, in most cases the TLOF area coincides with the FATO area, so the installation of TLOF perimeter lights only is required.

CERTIFICATION







FEATURES





















PERIMETER LIGHT - TLOF INSET TECHNICAL SPECIFICATIONS

OPTICAL FEATURES

Horizontal emission: 360°

PMMA and glass lenses

Angolo (E)	Light Intensity
20° < E ≤ 90°	3 cd
13° < E ≤ 20°	8 cd
10° < E ≤ 13°	15 cd
5° < E ≤ 10°	30 cd
2° ≤ E ≤ 5°	15 cd

-180° Azimuth +180°

MECHANICAL FEATURES

- Anodized aluminium body
- EPDM o-ring
- Degree of protection: IP66
- Shallow base 5"
- Operating temperature: -20°C to +60°C
- Supplied with 30cm Luxsolar standard cable
- Weight: 4,8kg

ELECTRICAL FEATURES

- Alimentazione: 12/24/48 VDC o 115/230Vac da pannello di controllo
- Consumo: 3,7W @12/24Vdc
- LED alimentati in corrente costante

OPTIONS

- Adaptor for shallow base 8"/ 12"
- Wireless version
- Wave lenght IR: 850nM, compatible with NVG pilot

CERTIFICATION

- ICAO/EASA test report (EN17025 laboratorio) nr. 326-QL20-R07
- CF

COMPLIANCE

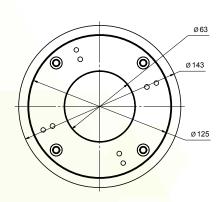
- ICAO Aerodromes Annex 14 Volume 2, Heliports
- EASA CS-HPT-DSN

PRODUCT CODE

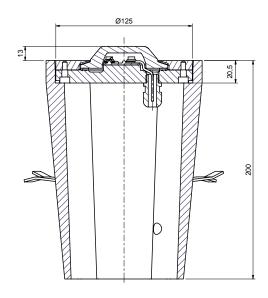
TLOF-LXS-INSET
TLOF-LXS-INSET-8
TLOF-LXS-INSET-WRL

TECHNICAL DRAWINGS

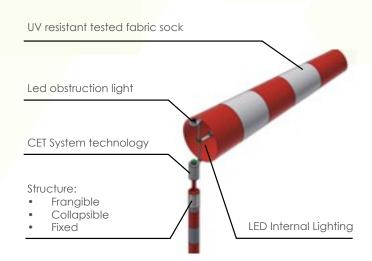
TOP VIEW



SIDE VIEW



LXS HELIPORT LIGHTED WINDSOCK



The internal lights of the sock and the obstruction light are powered by the innovative CET (Contactless Energy Transmission) system, for the wireless transfer of energy from the fixed to the mobile rotating part of the sock.

- --- Contactless power supply
- Internal and external lighting compliant to regulations



TECHNICAL SPECIFICATIONS

SOCK FEATURES

- Colour:
 - Unicolour Red
 - Unicolour Orange
 - Unicolour White
 - Two-tone Red and White
- Material: Polyester or Nylon
- Throat opening: from ø250mm to ø900mm
- Lenght: according to throat diameter
- Designed to be visible up to 200m distance
- 360° complete rotation

MECHANICAL FEATURES

- Pole material:
 - Aluminium
 - Glass Reinforced Polyester (GRP)
 - Stainless Steel
- Windsock height: from 2m to 6m
- Pole structure type:
 - Fixed
 - Frangible
 - Collapsible
 - Frangible + Collapsible
- Sock frame material: galvanized carbon steel
- Degree of protection: IP66

ELECTRICAL FEATURES

- Power supply: 24VDC
- Power consumption: 20W
- LED feeded at constant current
- CET (Contactless Energy Trasmission)

OBSTRUCTION LIGHT OPTICAL FEATURES

- Horizontal emission: 360°
- Vertical emission: as per ICAO rule L810 Type A or Type B

WINDSOCK OPTIONS

- Stainless steel sock frame
- Pole painting
- Power supply 110/220 Vac
- IR light compatible with NVG
- Lower temperature compatibility (-50°C)

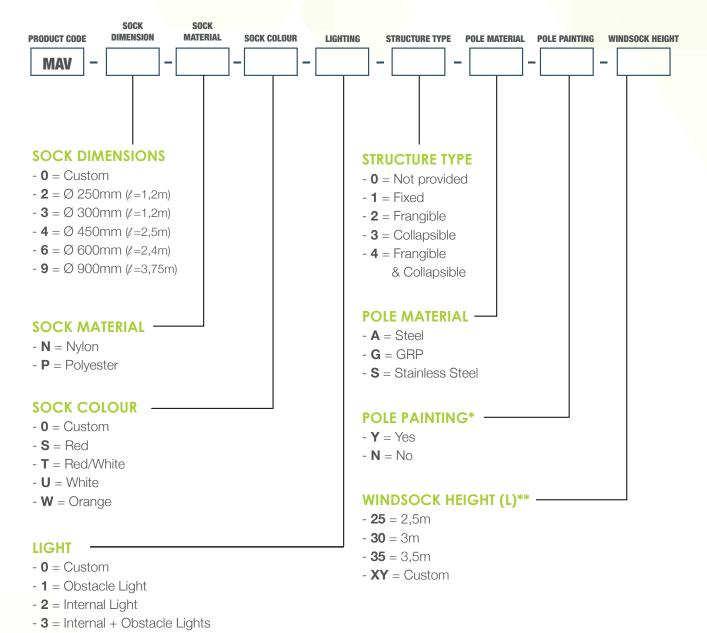
TEMPERATURE

Operating temperature: -20°C to +50°C

COMPLIANCE

- ICAO Annex 14 Vol. II Heliports par. 5.1.1
- ICAO Annex 14 Vol. I Visual Aids par. 5.1.1
- FAA AC 150 / 5345 27
- EASA Chapter F Heliport Windsock Visual Aids
- PTS VPT DSN EASA

LXS HELIPORT LIGHTED WINDSOCK PRODUCT CONFIGURATION



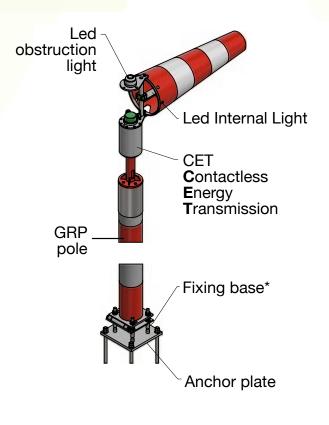
^{*}Painted with red/white alternate bands

^{**} To wind sock centerline

LXS HELIPORT LIGHTED WINDSOCK STRUCTURE TYPE

GRP







1) Frangible*

Frangibility, in case of impact, 4 specially design frangible bolts will bring the entire structure down to the ground.

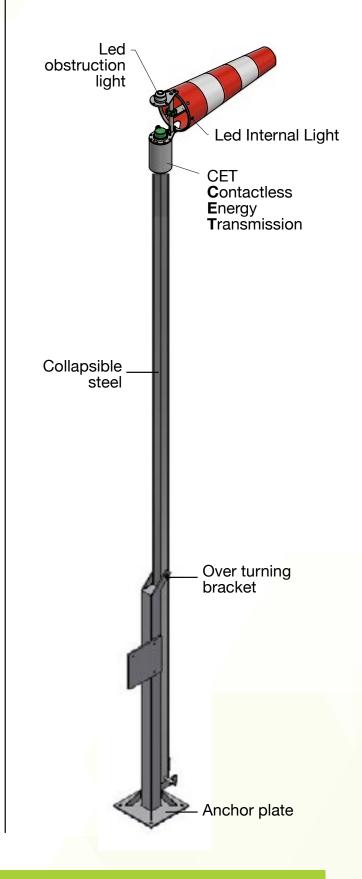


2) Collapsible*

The structure can be can be overturned at ground level by means of a hinge for maintenance and checks.



3) Frangible + Collapsible* Commbination of hinge and frangible bolts improves the global safety of the system.



LXS HELIPORT LIGHTED WINDSOCK LIGHTING



Style I-A



Externally lighted:

External Lighting with projectors placed over the windsock, in a way that the sock is lighted in all positions.

This solution needs a lot of power.



Style I-B



Internally lighted:

1) Internal lighting by reflectors chasing the windsock.

The reflector reduces the wind flow, necessary to inflate the sock. The problem is significant in medium and bigger sized windsocks.



Style I-B

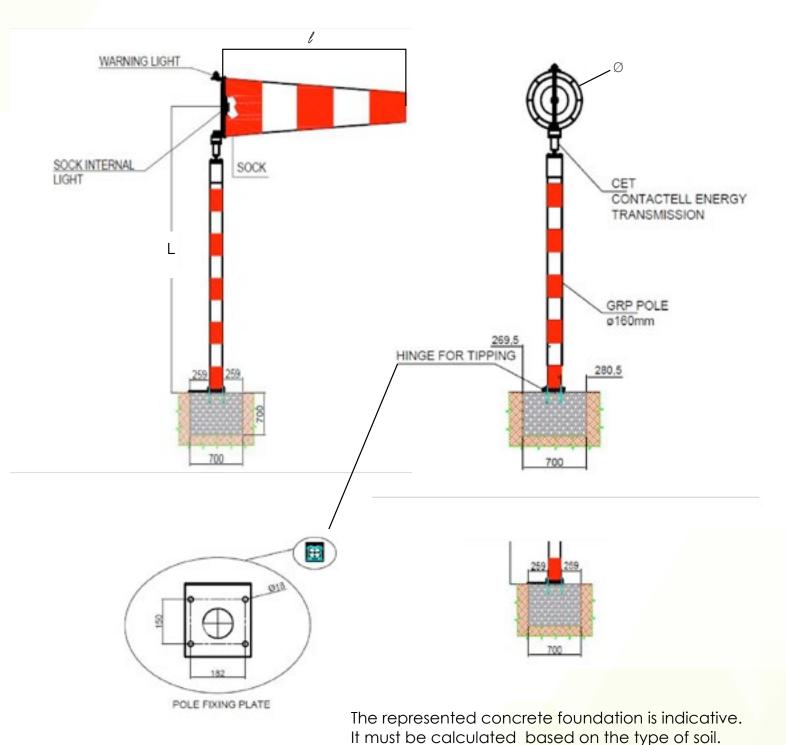


Internally lighted:

2) This solution has the advantage to illuminate only the sock from the inside, avoiding unnecessary energy consumption. The lamp illuminates the sock from the inside. The power is transferred from the fixed part to the mobile basket through an innovative Contactless Energy Transmission - CET.

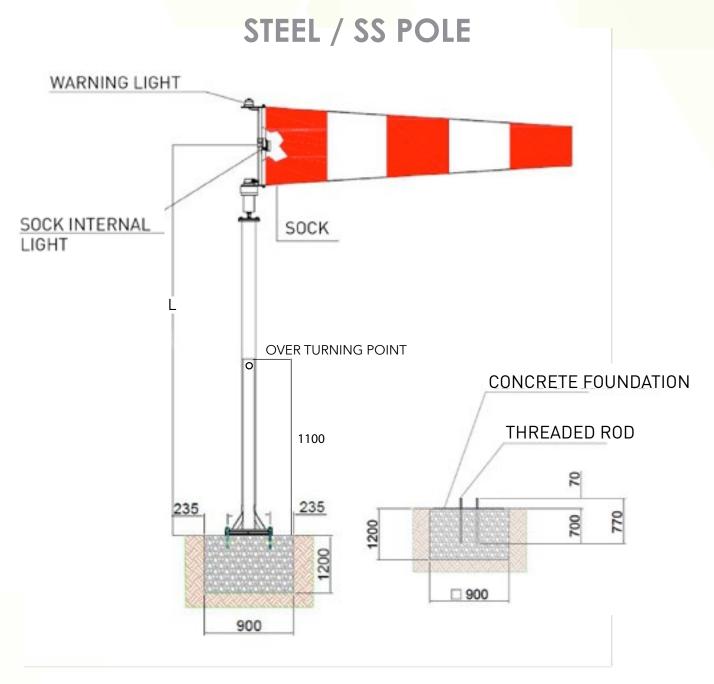
LXS HELIPORT LIGHTED WINDSOCK TECHNICAL DRAWINGS

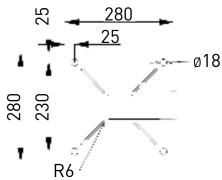
GRP POLE



The foundation is not required if the fixing is over a steel support.

LXS HELIPORT LIGHTED WINDSOCK TECHNICAL DRAWING

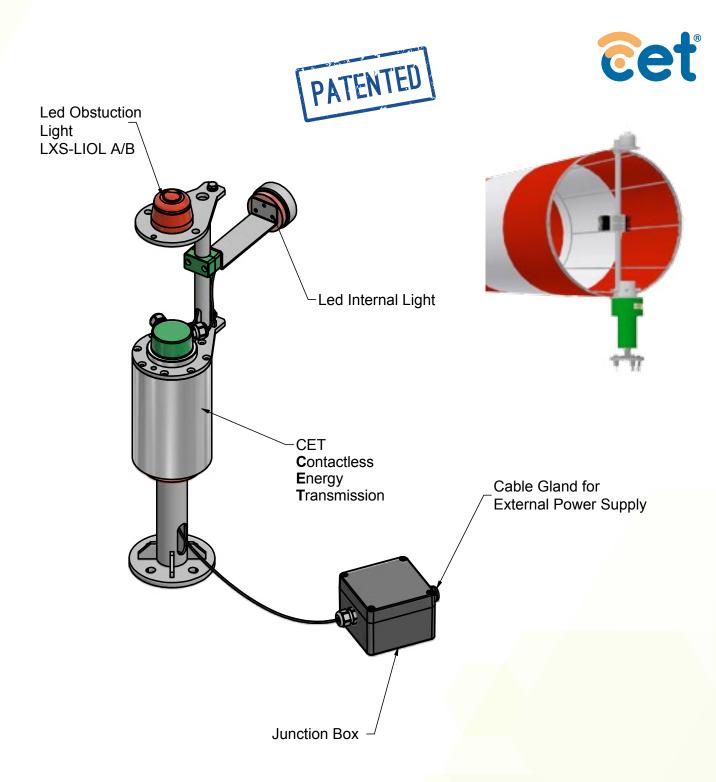




The represented concrete foundation is indicative. It must be calculated based on the type of soil. The foundation is not required if the fixing is over a steel support.

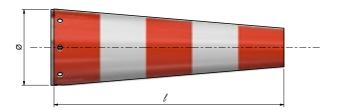
LXS HELIPORT LIGHTED WINDSOCK CET CONTACTLESS ENERGY TRANSMISSION

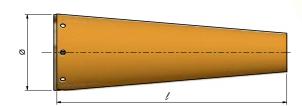
A power supply of the windsock through traditional cabling represents an obstacle and a danger because of the possible twists of electrical conductors. The innovative **Contactless Energy Transmission - CET** introduces a new way to power supply windsocks. Thanks to bearings, the device can rotate freely, according to the wind flow.



LXS HELIPORT LIGHTED WINDSOCK TYPE OF SOCK

The choice of the sock is essential for the duration of the entire system and the global reduction of maintenance, with consequent decrease in management costs.





The regulations do not generally specify the type of material to be used for the windsock, but only the requirements to be met (resistance to atmospheric agents, clearly visible colours, etc.).

On the basis of the required application, we have developed two solutions for the windsock:

- 100% Nylon Windsock, with PU treatment, water repellent and resistant. This solution is particularly suitable in applications where the sock must be illuminated, thanks to the brilliance (photosensitivity) of the fabric lighted from the inside of the sock. Colour fastness up to 1 year in STD conditions.
- 100% Polyester Windsock, with outdoor treatment and resistance of colour to UV-A tested and certified for more than 5 years. This solution is particularly suitable for applications where very good colour fastness is more important than a high level internal illumination.

The windsock is available at the following colours:



White



Red



Orange



White&Red

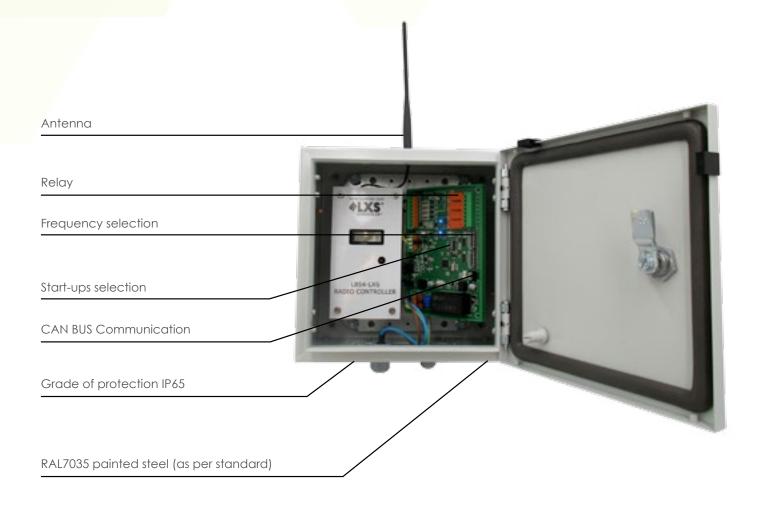
The windsock's fabric must satisfy the following requirements:

- Visibility and minimum alteration of colours over time
- Mechanical resistance to wind and tear
- Water resistance
- UV rays' resistance

The superior quality of our socks is tested by means of an UV light generator under continuos operations. To find an equivalce between the emission values of the generator and the real solar radiation, the UV Index geographical reference data were taken into consideration. Specifically, 103 hours of continuos radiation correspond to one year of sun exposure in the city of Rome.

RADIO RECEIVER/DECODER L854-LXS

Device used by pilots for ground air communications



L854-LXS is a tool that allows pilots to turn on and control the heliport lighting system. This system is essential for landing in areas not manned by ground personnel, making it easy and fast to control lights such as **TLOF**, **WINDSOCKS**, **FLOODLIGHTS etc**.

LUXSOLAR has developed the radio receiver/decoder L854 which, through a series of clicks, allows pilots to turn on and set the intensity of the lights of the HEMS area.

The system is designed for automatic shutdown after 15 minutes. This prevents energy waste and reduces light pollution. You can set the shutdown time.

CERTIFICATION COMPLIANCE ICAO EASA FEATURES









RADIO RECEIVER/DECODER TECHNICAL SPECIFICATIONS

OPERATION

The pilot activates the radio system through the onboard communication button. Depending on the number of clicks, the lighting system lights up at different intensities:

3 clicks: low intensity5 clicks: medium intensity7 clicks: high intensity

MECHANICAL FEATURES

- FAA L854 Type I: Air-ground
- Pilot Control Lights (PCL) Type J: clicks activated by the PTT button
- System enablement in 5 seconds
- Automatic shutdown after 15 minutes of inactivity
- Operating frequency: 118-136MHz
 Operating temperature: -40°C /+55°C
- Power: 100/240Vac 50-60Hz
- Power: continuous current version available
- CAN BUS Communication

INCLUDED IN THE SYSTEM:

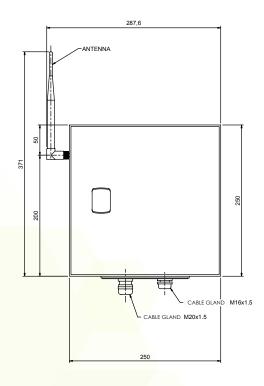
- AM receiver
 - Decoder type A
 - Bandwidth 8.33KHz o 25KHz

PRODUCT CODE

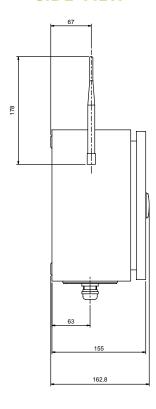
L854-LXS

TECHNICAL DRAWINGS

FRONT VIEW



SIDE VIEW



HELIPORT BEACON - HB HB-LXS

The heliport beacon (HB) is required when identification of the heliport is difficult due to high light pollution or when long distance visual guidance is required.

Patented heath sink for optimized cooling Borosilcated glass protective cover Alignment check Anti-condensation Goretex valve PLUG&PLAY: IP68/69k connector Anodized aluminium body Air cooling system + 64% efficent

- --- Life expectancy over 10years
- ---> Flashing white light MORSE code "H"
- --- Low consumption
- --- Stabilized light
- Intensity 10%, 30%, 100% adjustable directly from the aircraft control
- ---> Electronics supplied separately



CERTIFICATION



COMPLIANCE





FEATURES



























HELIPORT BEACON - HB TECHNICAL SPECIFICATIONS

CARATTERISTICHE OTTICHE

- Based on LED technology
- Horizontal emission 360°
- PMMA Lens
- Vertical emission

Angle (E)	Luminous intensity						
10°	250cd						
7°	750cd						
4°	1700cd						
2° ½	2500cd						
1° 1/2	2500cd						
0°	1700cd						

MECHANICAL FEATURES

RAL7035 painted anodized aluminium Case

Azimuth

- Borosilicate glass protective cover
- Silicone seal, VMQ

-180°

- IP66 protection grade
- Operating temperature from-30°C to +50°C
- Case material: RAL7035 painted steel
- IP65 case protection grade
- Case dimensions 500x300x210mm
- Case weight 20kg
- Case operating temperature from -20°C to +50°

ELECTRICAL FEATURES

- Power supply from control panel:
 - 12/24 VDC;
 - 115/230 VAC
- Average consumption 13W
- LEDs powered by constant current
- No RF radiation

CERTIFICATIONS

- ICAO test report (EN17025 laboratorio) nr. 523-QL17-R02
- CE

+180°

COMPLIANCE

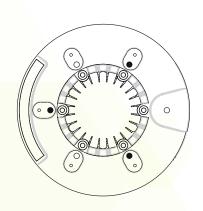
- ICAO Heliports Annex 14 Vol. II
- ICAO Heliport Manual

PRODUCT CODE

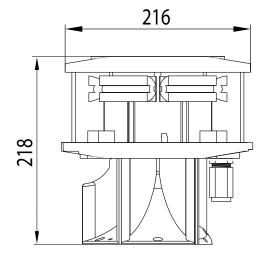
HB-LXS-IP24 HB-LXS-IP230

TECHNICAL DRAWINGS

TOP VIEW

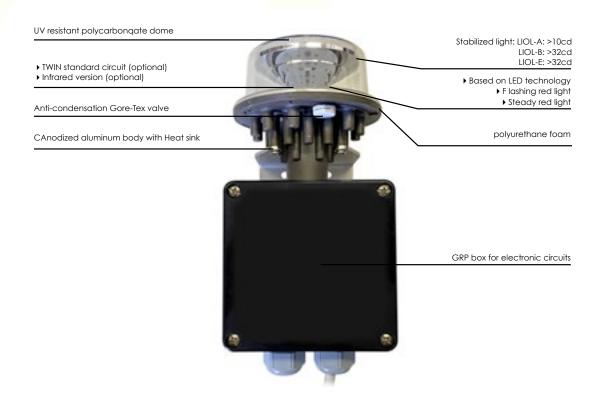


SIDE VIEW



LIOL-A, LIOL-B, LIOL-E LOW INTENSITY AIRCRAFT WARNING LIGHT

In the case of buildings located near the HEMS surface, ICAO Annex 14 provides for the installation of LIOL (Low Intensity Obstruction Lights) where there are obstacles up to 45m in height.



LIOL beacons in the catalogue have the following features:

- LIOL A: red steady light intensity >10cd
- LIOL B: red steady light intensity >32cd
- LIOL E: red flashing light intensity >32cd

L810-LXS is compliant to ICAO and FAA standards and certified ENAC and EASA. Thanks to its compact and light structure, to the high-quality LEDs and to the optimized optics, LIOL A/B is the best choice as obstacle warning light.





COMPLIANCE













FEATURES





































LIOL-A, LIOL-B, LIOL-E TECHNICAL SPECIFICATIONS

OPTICAL FEATURES

- Based on LED technology
- Steady redlight
- Flashing red light
- LIOL-A: >10 cd
- LIOL-B: >32 cd
- LIOL-E: >32 cd (flashing)
- Cd emission: +6° e +10°
- Horizontal emission: 360°
- Vertical emission: >10°
- Optical reflector

MECHANICAL FEATURES

- Anodized aluminium body with integrated heath sink
- UV-resistant Polycarbonate dome
- Polyurethane foam
- Black JB for GRP connections
- Protection degree: IP66
- Operating temperature: from 20°C to 50°C
- Weight: 1kg approx
- Anti-condensation Goretex valve
- SS304 backing plate

ELECTRICAL FEATURES

- Power: AC or DC
- LIOL A consumption: 2W @12/24Vdc
 LIOL B consumption: 2.8W @12/24Vdc
 LIOL E consumption: 2W @12/24Vdc
 LEDs powered by constant current

OPTIONS

- TWIN version: double LED circuit
- Malfunction alarm
- nfrared at 850nm, compatible with pilot NVG
- LUXSOLAR Cloud Monitoring System

CERTIFICATIONS

- DGAC/STAC approval nr. 2013A048
- ENAC approval nr. 0135182/ENAC/CIA
- EASA test report (EN17025 laboratorio) nr. 326-QL20-R03/R04
- CE

COMPLIANCES

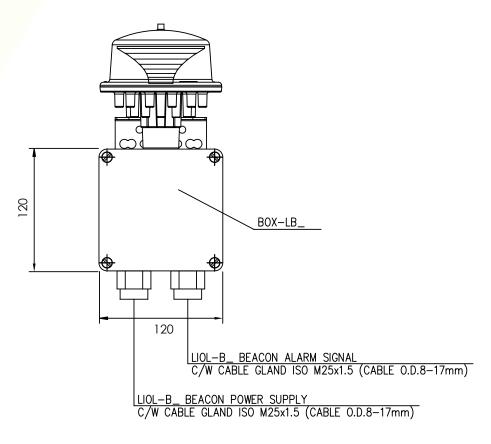
- ICAO Aerodromes -Annex 14 Volume 1, Chapter 6: Low intensity, Type A-B steady burning obstacle light, Type E flashing obstacle light
- FAA AC150/5345-43; E.B. #67 type L-810
- EASA CS-ADR-DSN, Chapter Q

ORDER CODE

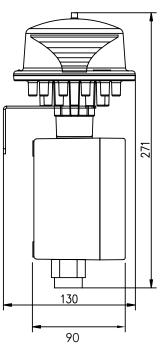
LXS ORDERING CODE	[A] = Type A >10cd Steady Burning	[B] = Type B >32cd Steady Burning	[E] = Type E >32cd Flashing	JB GRP	115Vac	230Vac	12Vdc	24Vdc	48Vdc	TWIN	"INFRA RED"	SS304 SUPPORT	"FAULT CONTACT"	"AUTO SWITCH"	"TWILIGHT SENSOR"	*READY for CLOUD
L810-LXS-AR-[]GS6R0S	•	•		•	•	•						•				
L810-LXS-AR-[]GS2R1T	•	•	•	•			•	•		•		•	•	•	•	•
L810-LXS-AR-[]GS2R2T	•	•	•	•			•	•		•		•	•	•		•
L810-LXS-AR-[]GS2R1I	•	•	•	•			•	•			•	•	•		•	•
L810-LXS-AR-[]GS6R1T	•	•	•	•	•	•				•		•	•	•	•	•
L810-LXS-AR-[]GS6R2T	•	•	•	•	•	•				•		•	•	•		•
L810-LXS-AR-[]GS6R1I	•	•	•	•	•	•					•	•	•		•	•
L810-LXS-AR-[]GS7R1T	•	•	•	•					•	•		•	•	•	•	•
L810-LXS-AR-[]GS7R2T	•	•	•	•					•	•		•	•	•		•

LIOL-A, LIOL-B, LIOL-E TECHNICAL DRAWINGS

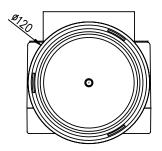
FRONTAL VIEW



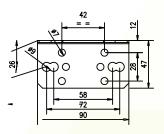
SIDE VIEW



TOP VIEW

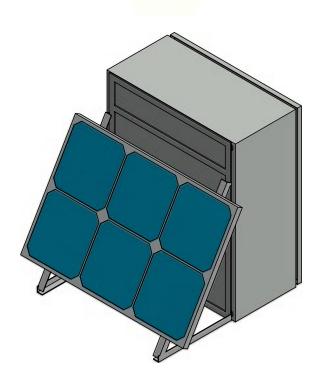


FIXING DETAILS

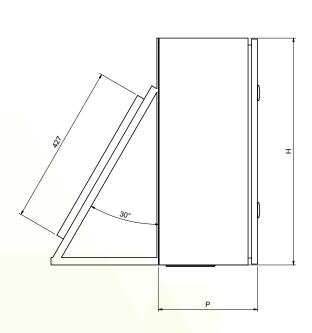


SOLAR STORAGE UNIT SOL-LXS

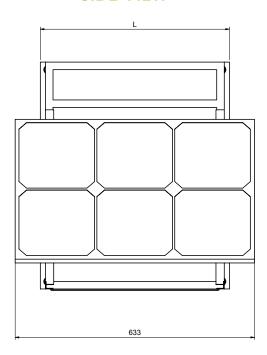
Solar energy storage system for night time power supply for HEMS surface lights: It can be integrated with the standard mains power supply.



FRONT VIEW



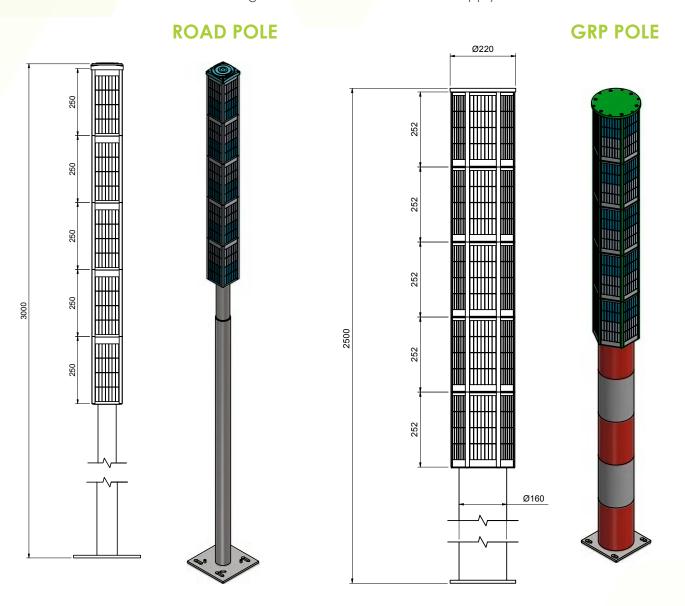
SIDE VIEW



NOTE: the dimensions of the UPS system depend on the needs and power required.

SOLAR STORAGE UNIT SOL-LXS-PLP

Solar and wind energy storage pole and wind power for night power supply of the lights of HEMS surfaces. It can be integrated with the standard mains supply.



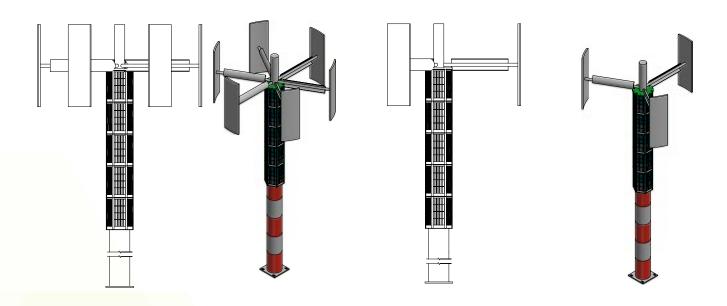
NOTE: the dimensions of the UPS system depend on the needs and power. required.

SOLAR STORAGE UNIT SOL-LXS-IBR

Solar and wind energy storage pole for night power supply of the lights of HEMS surfaces. It can be integrated with the standard mains supply.



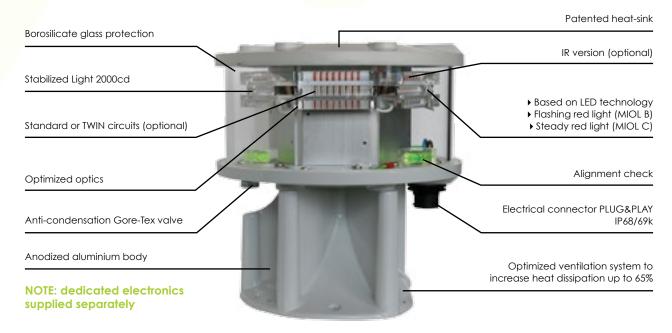




NOTE: the dimensions of the UPS system depend on the needs and power required.

MIOL-B, MIOL-C MEDIUM INTENSITY AIRCRAFT WARNING LIGHT

In the case of buildings located near the HEMS surface, ICAO Annex 14 provides for the installation of AWL. MIOL (Medium Intensity Aircraft Warning Lights) AWLs are necessary to warn the presence of obstacles with a minimum height from 45m to 150 m.

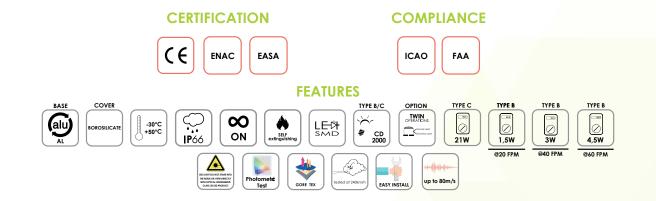


LIOL range includes 5 different types of Aircraft Warning Light:

- MIOL A: 20000cd flashing white light in day mode, 2000cd flashing white light in night mode.
- MIOL B: 2000cd flashing red light in night mode.
- MIOL C: 2000cd steady red light in night mode.
- MIOL AB: 20000cd flashing white light in day mode, 2000cd flashing red light in night mode.
- MIOL AC: 20000cd flashing white light in day mode, 2000cd steady red light in night mode.

Thanks to the compact design, the high quality of the LEDs, the patented optical and cooling system, MIOL B/C LXS 200 is the most advanced AWL on the market. The control electronics are supplied separately to facilitate maintenance and periodic checks.





MIOL-B, MIOL-C SPECIFICHE TECNICHE

OPTICAL FEATURES

- Based on LED technology
- Red light 2000cd
- Emission @ -0,5° and +4°
- Horizontal Emission: 360°
- Vertical emission: 4°
- PMMA lens
- Visual alignment system

MECHANICAL FEATURES

- RAL7035 painted anodized aluminium body
- Protective cover in borosilicate glass
- Silicone gasket, VMQ
- Heatsink with wind cone
- Protection degree: IP66
- Gore Tex anti-condensation valve
- Operating temperature: from 30°C to 50°C
- Weight: 6kg
- SS304Support bracket
- Control box supplied separately

ELECTRICAL FEATURES

- Power supply from the dedicated
- control panel:
 - 12/24 VDC;
 - 48 VDC;
 - 115/230VAC;
 - Other available;
- Average consumption for MIOL B:
 - @20fpm: 1,5W
 - @40fpm: 3W
 - @60fpm: 4,5W
- Average consumption for MIOL C: 21W
- LEDs powered with constant current
- No RF radiation
- Conductor section: 0.5mm2 to 2.5mm2
- External cable diameter: 7mm to 14mm

OPTIONS

- LUXSOLAR Cloud Monitoring System
- Versione TWIN con due circuiti LED separati

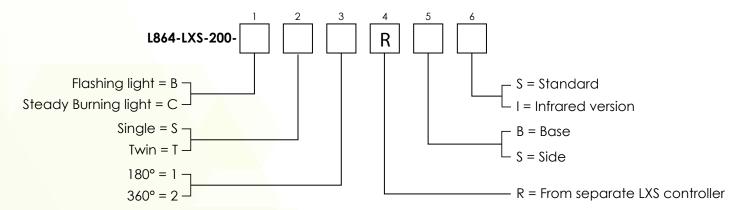
CERTIFICATIONS

- 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

COMPLIANCES

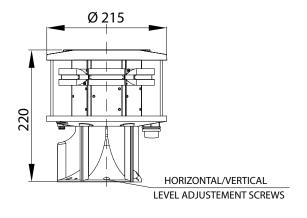
- ICAO Aerodromes Annex 14 Vol. 1, Ch.6: Medium intensity, Type B flashing obstacle light MIOL-B type or Type C steady burning obstacle light MIOL-C type;
- FAA AC150/5345-43; E.B. #67 type L-864;
- EASA Aerodromes Design CS-ADR-DSN, Ch.Q: Medium intensity, Type B flashing obstacle light MIOL-B type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

ORDER CODE

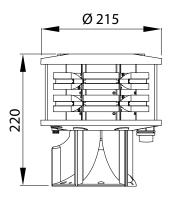


MIOL-B, MIOL-C DISEGNI TECNICI

SINGLE VERSION SIDE VIEW

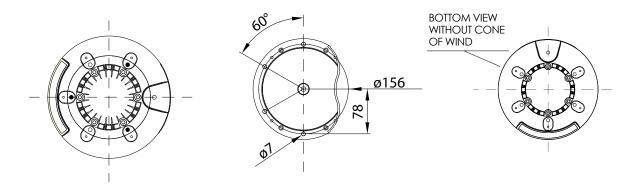


TWIN VERSION SIDE VIEW

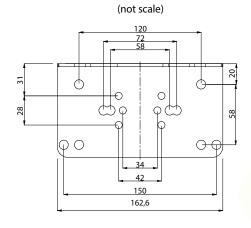


TOP VIEW

BOTTOM VIEW

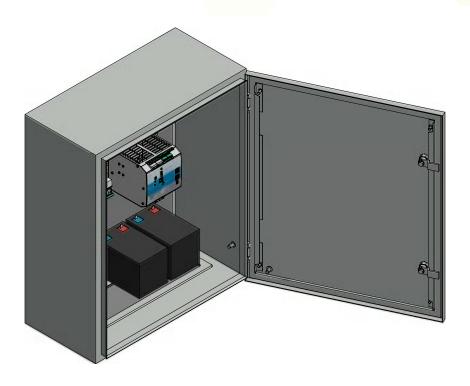


FIXING DETAILS

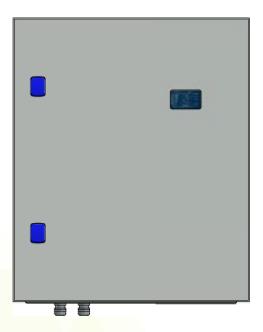


UPS-LXS

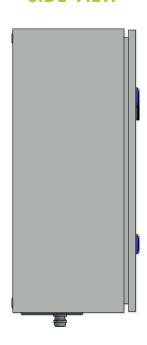
Backup unit to compensate for the temporary lack of electricity from the grid, essential to ensure the operational continuity of the helicopter rescue surface.



FRONT VIEW



SIDE VIEW



The UPS LXS units can guarantee the operation of the lighting systems for a time from 15 to 60min, according to specific needs.

NOTE: the size of the UPS system depends on the needs and and power required.

CLOUD MONITORING SYSTEM CMS-LXS-HIW

Monitoring unit for the operating status of the Aircraft Warning Light System.



The CLOUD MONITORING SISTEM allows the monitoring of the signals via Global Network radio, the reporting of any faults, the storage of all anomalies and the display in a dynamic graph. All this can be easily accessed through any browser and fixed and/or mobile device.

The information collected by the system, in addition to being available in real time in the dedicated portal, is sent by instant messaging and e-mail.

The portal is accessed with specific credentials and data transmission is protected by HTTPS encryption.

CONTACT US

LUXSOLAR technical department is at your disposal for support in the choice of signaling systems for HEMS helipads.

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LUXSOLAR

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- Linkedin: Luxsolar Italia - YouTube: Luxsolar







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