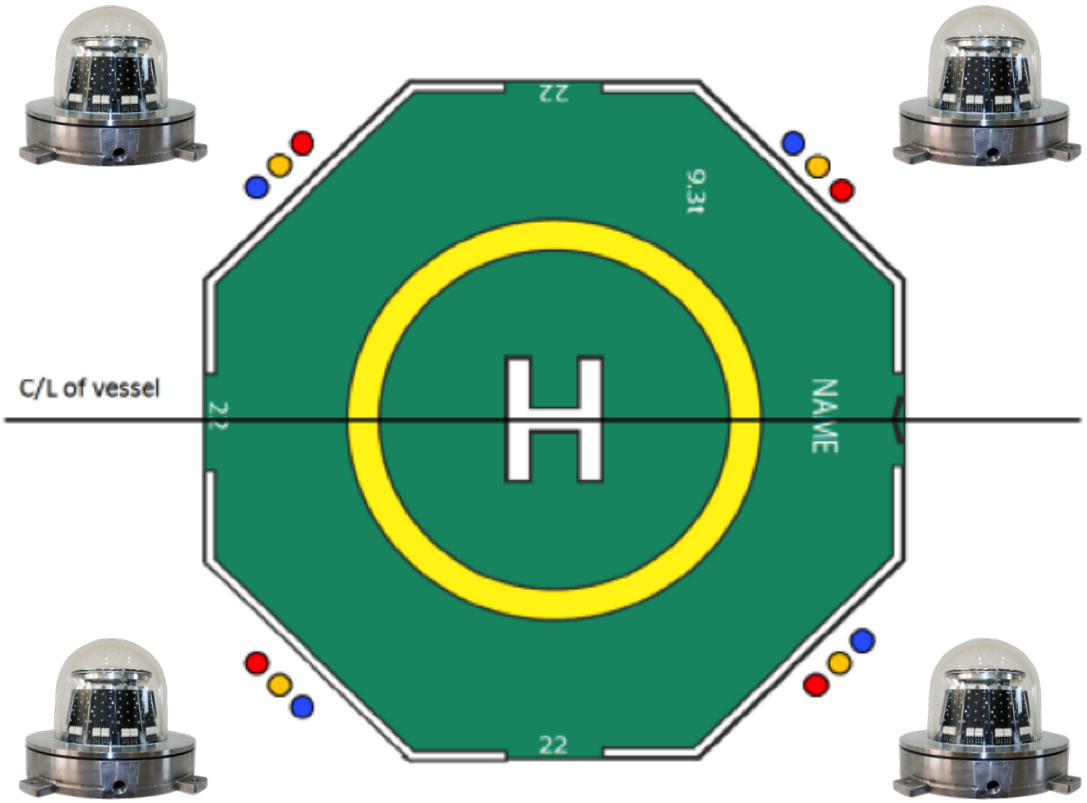
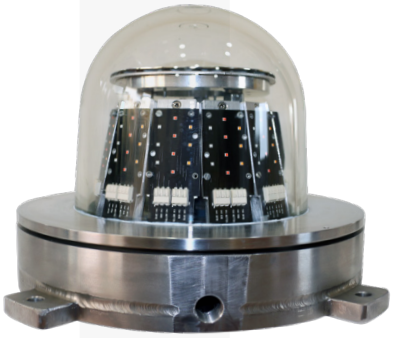
HELIDECK MONITORING SYSTEM
REPEATER STATUS LIGHTS
Flame-Proof Ex db IIC, Ex tb IIIC
ZONE 1/21/2/22



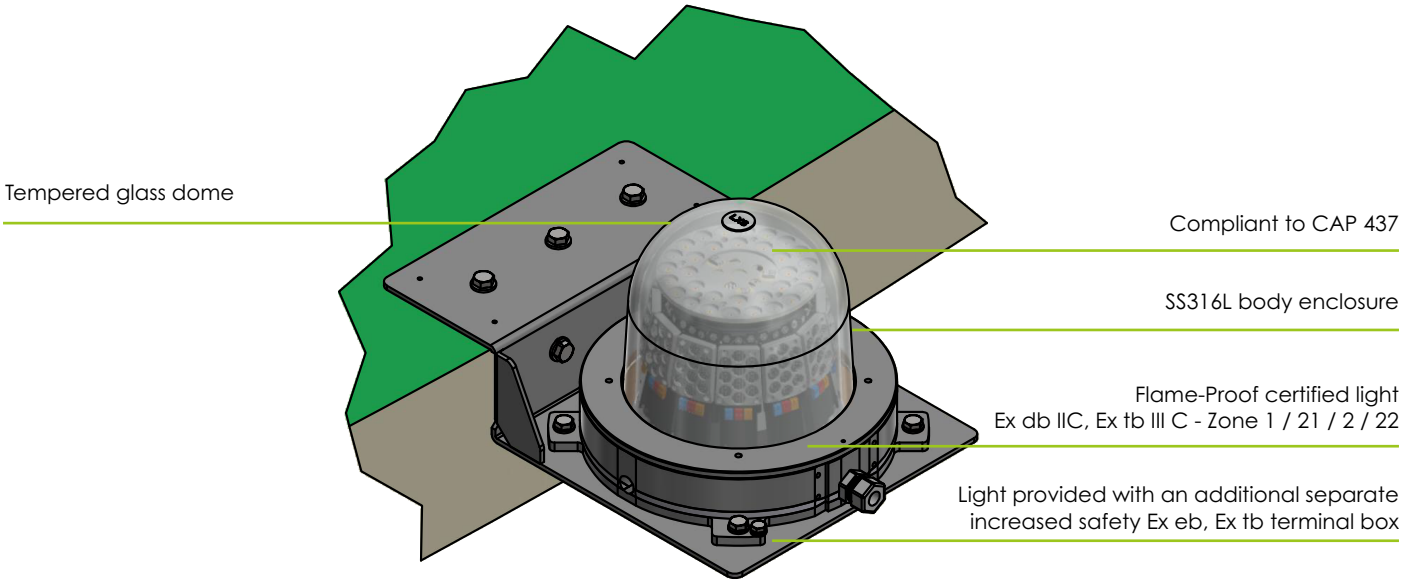
According to **CAP437 "Standards for Offshore Helicopter Landing Areas",** from 1st April 2021 all moving helidecks must be provided with a **Helideck Monitoring System compliant with Rev.9 or later of the standard published on the Helideck Certification Agency's website.**

The standard requires that unstable/moving landing areas - such helidecks mounted on floating units - must be equipped with a Helideck Monitoring System (HMS) that analyses helideck motion to determine landing conditions. **The HMS-LXS-Ex converts this information into light signals that alert pilots to the helideck's motion status before landing, as well as any changes in weather conditions post-landing.**



lxs@luxsolar.com - www.luxsolar.com - Ph. +39.0341.260926

HMS REPEATER STATUS LIGHT Ex db IIC, Ex tb IIC



<150mm light elevation from helideck surface

IP66

The LUXSOLAR HMS-LXS-Ex lighting fixtures are in compliance with **CAP437 and ATEX/IECEx certified for Zone 1/21/2/22 according to EN / IEC 60079-0, EN / IEC 60079-1, EN / IEC 60079-31 standards.**

The body is manufactured in SS316L and the cover in borosilicate material to guarantee the maximum resistance to salt-atmosphere and harsh environments over the years. The light emission, thanks to customized lenses and ultra-bright LEDs, is certified by CAAi as in compliance with the applicable rules.

A dedicated control panel, that can be provided for safe (unclassified) or hazardous (ATEX / IECEx certified) areas, completes the system. It contains electronic boards specifically designed to receive inputs from the HMS software and to convert this information into light signals.

CERTIFICATION

CE · Ex · IECEx · CAP437

FEATURES

BASE: SS316L · DOME: BOROSILICATE · -50°C +60°C · IP66 · ∞ ON · SELF extinguishing · LED SMD · AMBER RED BLUE · LED LIGHT DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS CLASS 2M LED PRODUCT · Photometric Test · EASY INSTALL

TYPICAL APPLICATION

lxs@luxsolar.com - www.luxsolar.com - Ph. +39.0341.260926

rev_
250108

HMS REPEATER STATUS LIGHT Ex db IIC, Ex tb IIC
TECHNICAL SPECIFICATION

OPTICAL FEATURES

- Based on LED technology
- AMBER/RED/BLUE light in one light fixture
- FLASHING/STEADY burning mode as per CAP437 (see page 4)
- Horizontal beam radiation: 360°
- Vertical beam spread: as per CAAi rule
- ATEX execution:
  II 2GD Ex db IIC T... Gb
  Ex tb IIIC T...°C Db
- IECEx execution:
  Ex db IIC T... Gb
  Ex tb IIIC T...°C Db

LIGHT MECHANICAL FEATURES

- SS316L body material, natural finish
- SS316L fixing bracket, natural finish
- Borosilicate glass cover protection
- Degree of protection: IP66
- Ambient temperature: -50°C to +60°C
- Lamp unit weight: 19Kg approx

PANEL MECHANICAL and ELECTRICAL FEATURES

Common features:

- Complete with LUXSOLAR electronic components for HMS Repeater System operation
- Complete with 3 contacts to connect to helideck's Helideck Monitoring System
- Power consumption for HMS Repeater Light LUXSOLAR system (4HMS lights + 1 Control Panel): 400W approx

Specific features for Safe Area Control Panel:

- Available in mild steel (painted RAL7035) or SS316L (natural finish) material
- Ambient temperature: -20°C to +50°C

Specific features for Hazardous Area Control Panel:

- Available in SS316L (natural finish) or aluminium (painted RAL7035) material
- Ambient temperature: -50°C to +50°C

APPLY TO

- Vessel
- Floating Production Unit
- Semi-Submersible Rig
- Floating Jack Up Rig
- Any other moving helideck

COMPLIANCE

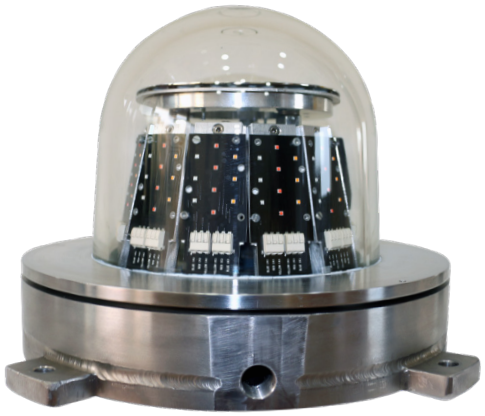
- CAP437 - Standards for Offshore Helicopter Landing Area
- Standard Measuring Equipment for Helideck Monitoring System (HMS) and Weather Data

CERTIFICATION

- Statement of Compliance issued by CAAi
- ATEX certificate: EPT 23 ATEX 5254X
- IECEx certificate: IECEx EUT 23.0012X
- CE marking

ORDER CODE

HLW-LXS-Ex



ORDER CODE

HMS-LXS-Ex- [1] [2]

[1] Number of lights per system = N

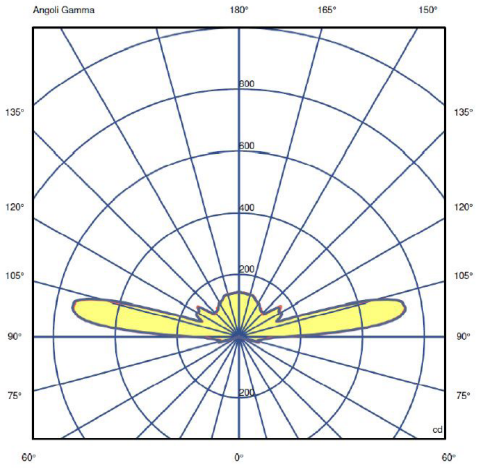
[2] IP = Panel suitable for safe area
Ex = Panel suitable for hazardous area

Note: ambient temperature and temperature classes are assigned as per Ex-certificate parameters.

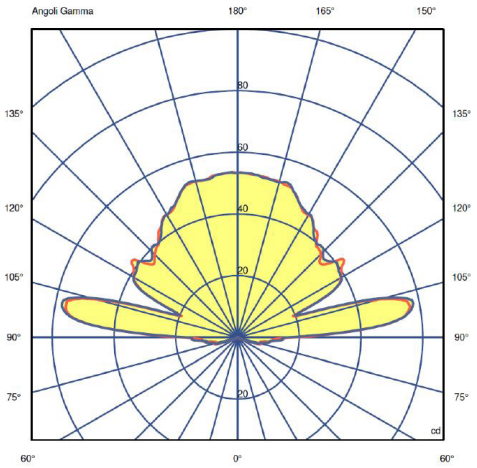
lxs@luxsolar.com - www.luxsolar.com - Ph. +39.0341.260926

HMS REPEATER STATUS LIGHT Ex db IIC, Ex tb IIC

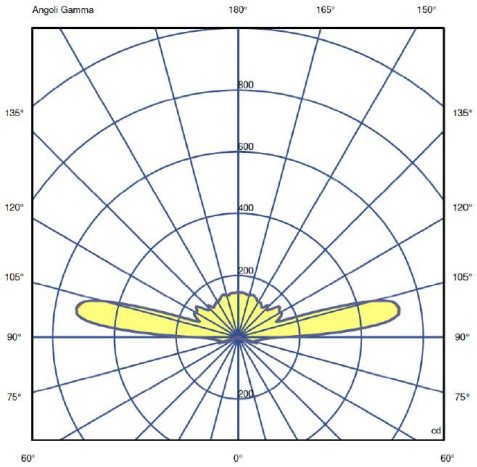
LIGHT DISTRIBUTION STEADY



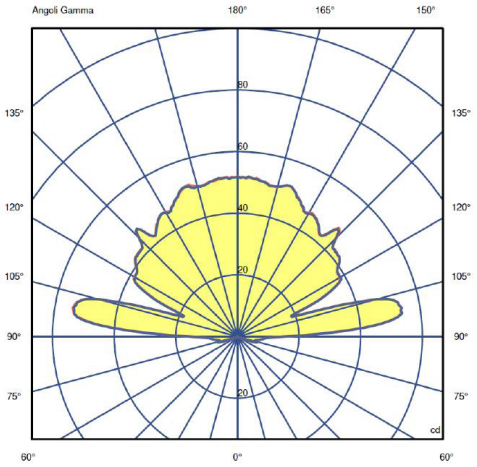
Amber Light DAY



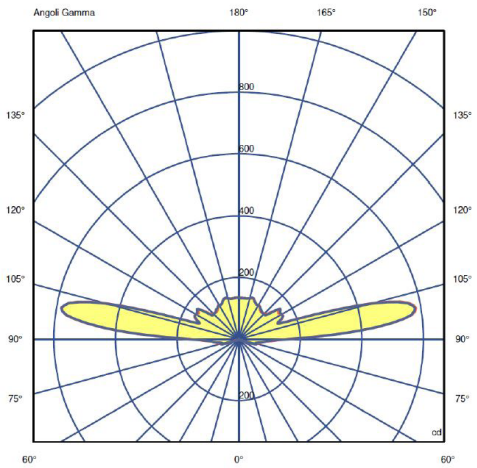
Amber Light NIGHT



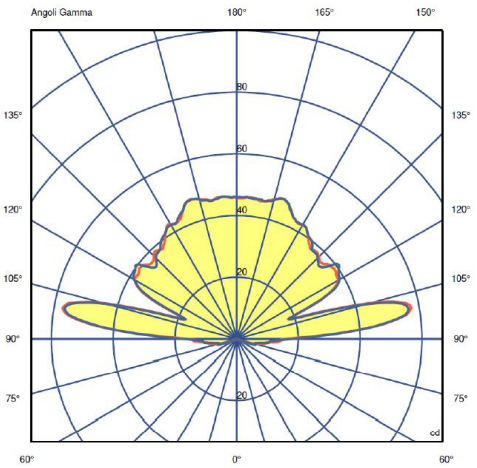
Red Light DAY



Red Light NIGHT



Blue Light DAY

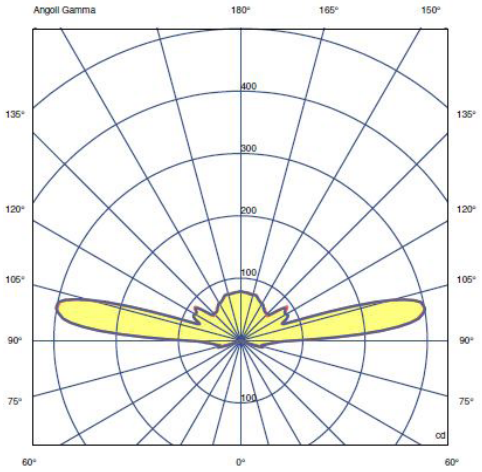


Blue Light NIGHT

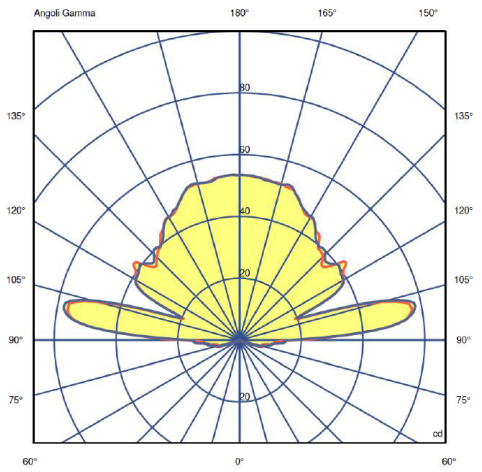
lxs@luxsolar.com - www.luxsolar.com - Ph. +39.0341.260926

HMS REPEATER STATUS LIGHT Ex db IIC, Ex tb IIC

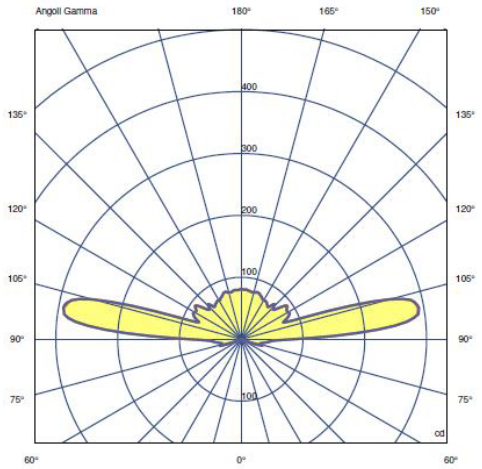
LIGHT DISTRIBUTION FLASHING



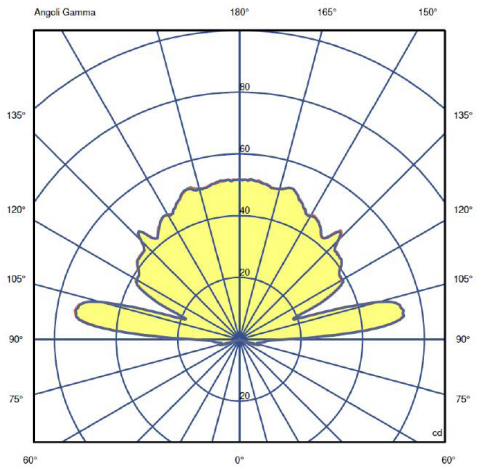
Amber Light DAY



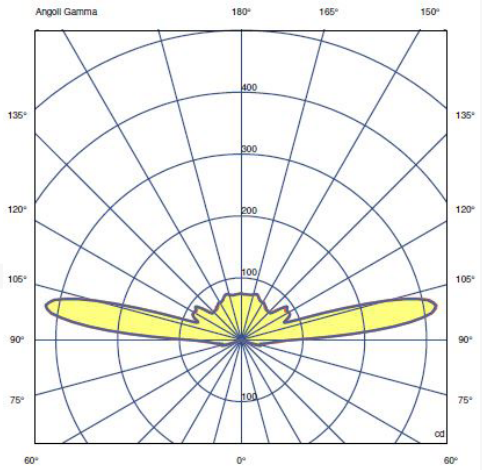
Amber Light NIGHT



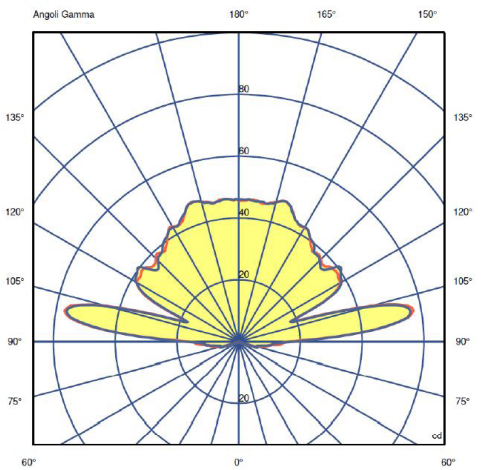
Red Light DAY



Red Light NIGHT



Blue Light DAY

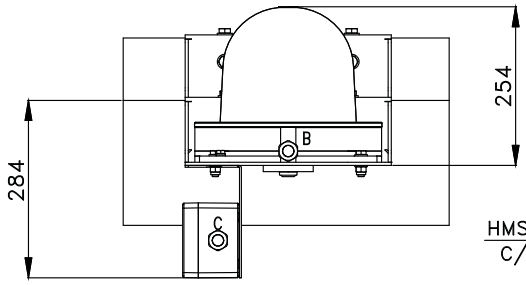


Blue Light NIGHT

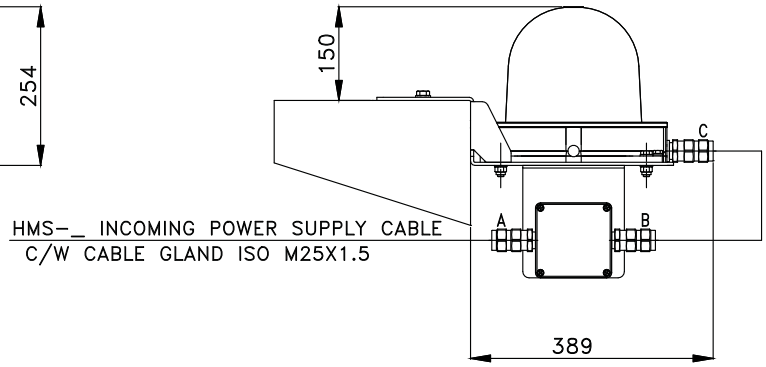
lxs@luxsolar.com - www.luxsolar.com - Ph. +39.0341.260926

HMS REPEATER STATUS LIGHT Ex db IIC, Ex tb IIC
TECHNICAL DRAWINGS

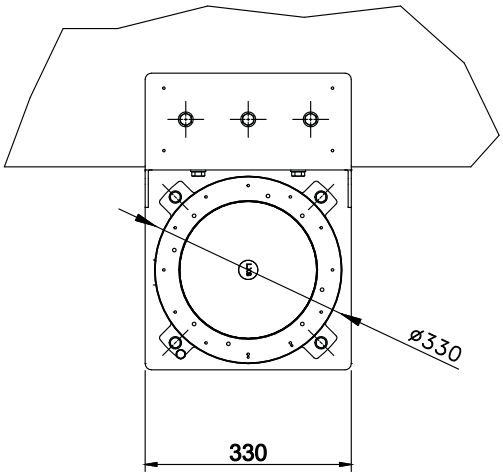
BEACON FRONT VIEW

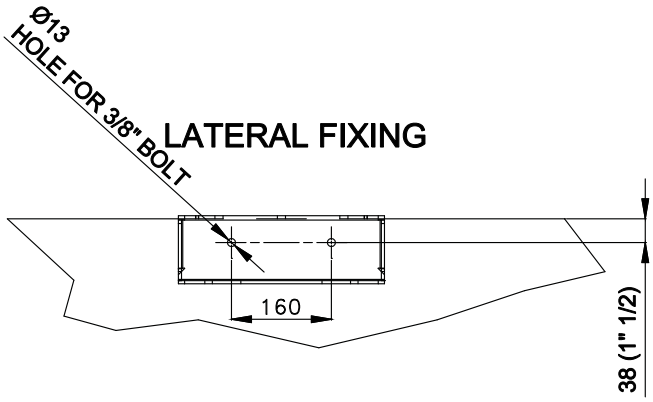


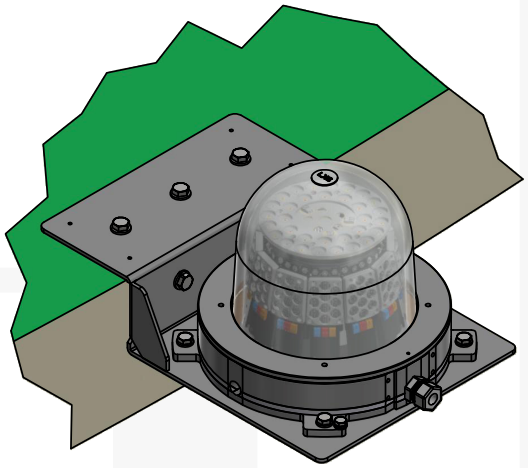
BEACON SIDE VIEW



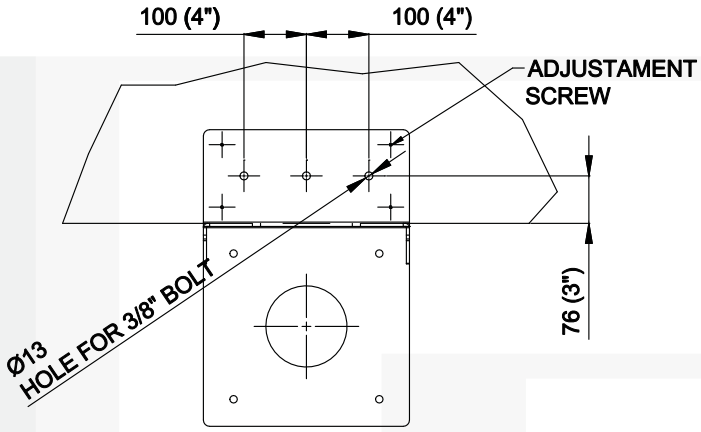
HMS–_ INCOMING POWER SUPPLY CABLE
C/W CABLE GLAND ISO M25X1.5







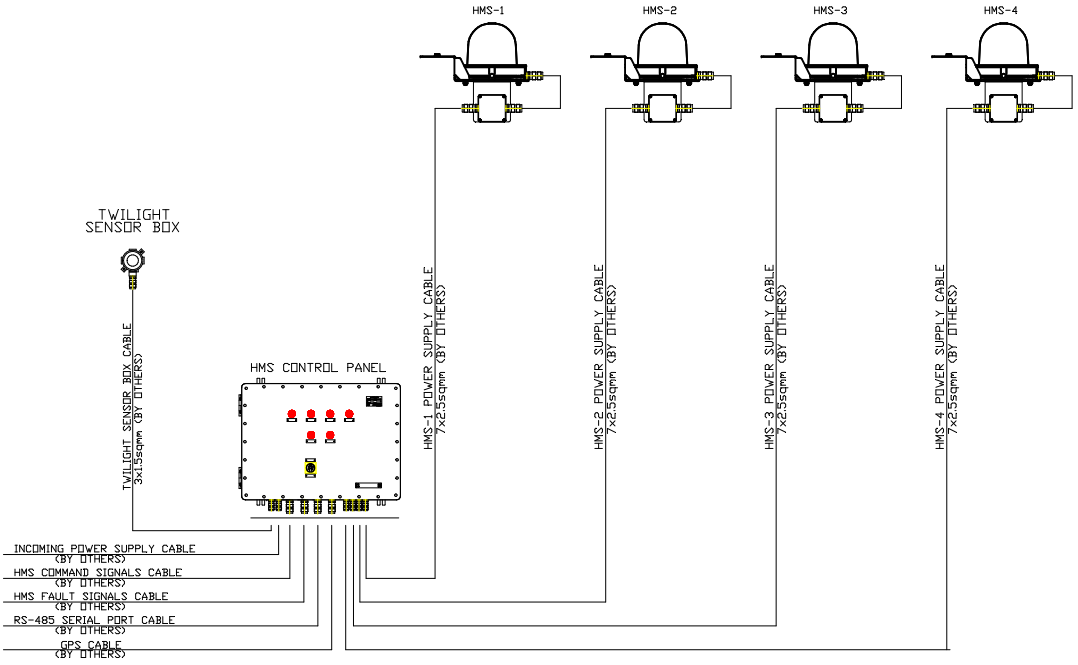
TOP FIXING



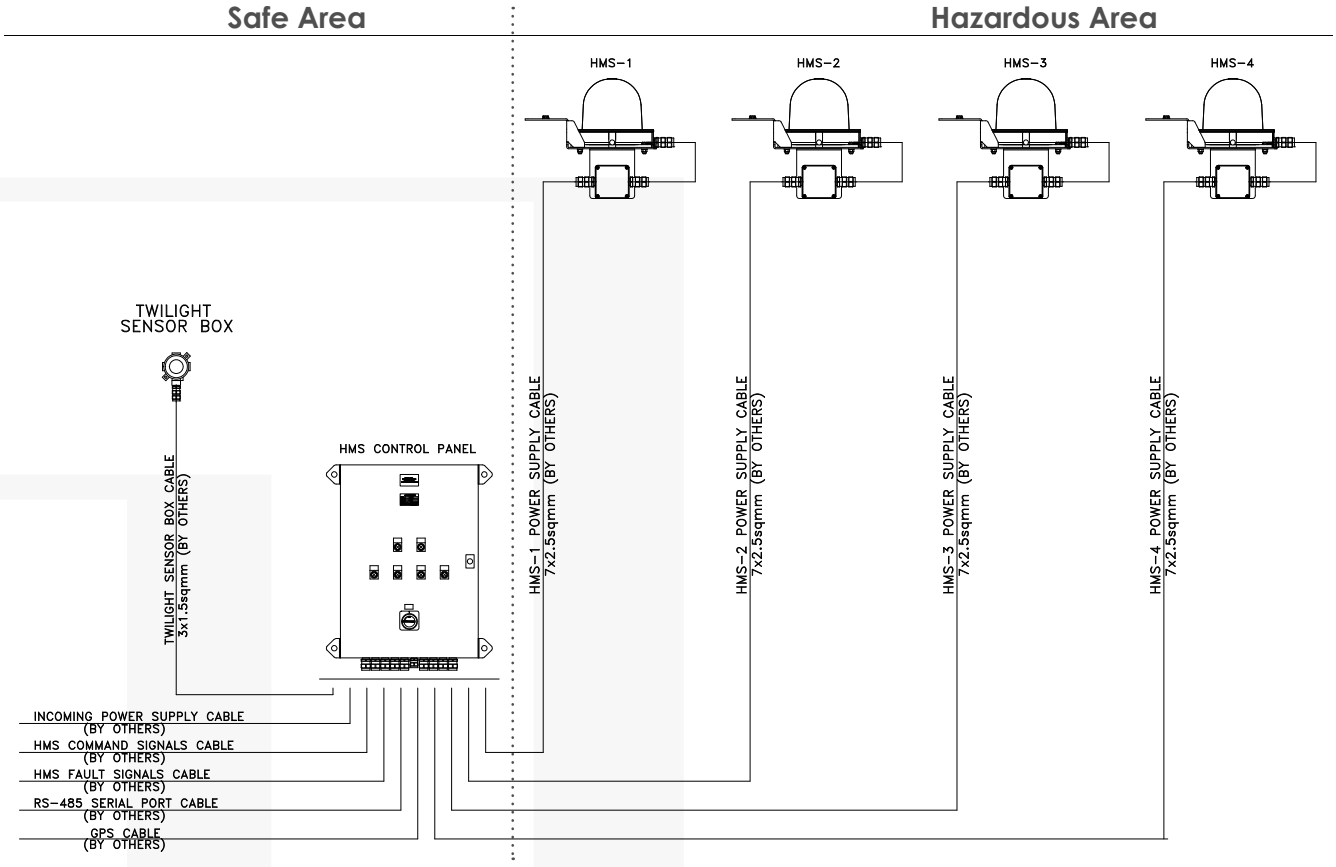
lxs@luxsolar.com - www.luxsolar.com - Ph. +39.0341.260926

HMS REPEATER STATUS LIGHT Ex db IIC, Ex tb IIC
TECHNICAL DRAWINGS

TYPICAL CONFIGURATION HAZARDOUS AREA



TYPICAL CONFIGURATION SAFE AREA PANEL



lxs@luxsolar.com - www.luxsolar.com - Ph. +39.0341.260926