

# L410EX-R-03

## Explosion proof LED subsidiary marine light (3NM) Centralised concept

Explosion proof marine light providing 3 nautical mile red omnidirectional visual coverage for offshore structures. The design, with long life LEDs, makes the product ideal for the environmental conditions, easy installation and long maintenance intervals.



### KEY FEATURES

- Reliable marine navigation light, low cost of ownership and low power consumption
- Suitable for Zone 1 and Zone 2 areas with gas explosion hazard Designed to work in conjunction with the NCCP concept
- 'U'-coded high voltage AC power supply from the NCCP for low cable costs and failure free synchronisation
- Light intensity complies with IALA requirements, even if the intensity of the lanterns is reduced with 25% (service condition factor, as per IALA E-200 (2008) Part 2, 5.1)
- Offshore coated, lightweight, corrosion free, seawater, UV and humidity resistant light alloy base
- Stainless steel mounting facilities to prevent corrosion problems
- Integrated Ex e connection box
- State of the art high power LEDs and technology provide superior life and reliability
- Very low power consumption due to efficient optical design
- Anti-bird spikes (to prevent bird fouling)

### STANDARDS/CERTIFICATION

- Complies with IALA regulation; O-139 The marking of man-made offshore structures – September 2020; chapter 2, paragraph 2.2 – Subsidiary lantern
- Complies with IALA guideline; G1162; The marking of man-made offshore structures – December 2021, chapter 2.3 – Subsidiary lantern
- Certified to UK Department of Energy and Climate Change; Standard marking schedule for offshore installations – April 2011, chapter 3.2 – Subsidiary lights
- Certified to US Coast Guard; 33 C.F.R. Part 67 – Aids to Navigation on artificial islands and fixed structures – May 2004, Chapter 67.05-10, 67.30-5
- Cenelec EN 60079-0, EN 60079-7, EN 60079-18 and EN 60079-28
- Sira 12ATEX3060X; ATEX II 2G Ex e mb op is IIC T4
- IEC 60079-0, IEC 60079-7, IEC 60079-18 and IEC 60079-28
- IECEx SIR 12.0025X; Ex e mb op is IIC T4 Gb
- ABNT NBR IEC 60079-0, ABNT NBR IEC 60079-7 and ABNT NBR IEC 60079-18 (optional)

- Inmetro NCC 13.1774 X (optional)

### PERFORMANCE CHARACTERISTICS

- Flashing red light, Morse code 'U' every 15 seconds by the NCCP
- Effective intensity: 15cd minimum (equals 3NM at ATF=0.74)
- Horizontal beam coverage: 360°
- Vertical beam profile: 2.5° FWTM minimum

### ELECTRICAL CHARACTERISTICS

- Operating voltage: 230Vac max.; 400 Hz; 'U' coded supply from the NCCP
- Power consumption: 5W peak; 0.9W average
- Connection details: max. 4mm<sup>2</sup>; two M25 cable gland entries
- Earth connection: internal max. 4mm<sup>2</sup> and external M5

### PHYSICAL CHARACTERISTICS

- Dimensions (L x W x H): 447 x 416 x 314 mm
- Weight: 21 kg
- Degree of protection: IP66
- Operating temperature range: -40°C to +55°C

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## SYSTEM DESIGN, CONTROL AND MONITORING

- Control and monitoring via separate control panel (see separate product information sheet)

