

# L410EX-W-10

## Explosion proof LED marine light (10Nm) Centralised concept

Explosion proof marine light providing 10 nautical mile white 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
- Coded high voltage AC power supply from the Navais Central Control Panel 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
- Very low power consumption due to efficient optical design
- Anti bird spikes (to prevent bird fouling)

### SYSTEM DESIGN, CONTROL AND MONITORING

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

### STANDARDS/CERTIFICATION

- Certified to IALA recommendation; O-139; The marking of man-made offshore structures – Dec. 2008, chapter 2.1.2 – Marine light
- Certified to UK Department of Energy and Climate Change; Standard marking schedule for offshore installations – April 2011, chapter 3.1 (f) – Secondary light
- Certified to Mining regulations of The Netherlands – Dec. 2002, Article 5.3 – Marine light
- 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 and EN 60079-18
- Sira 12ATEX3060X; ATEX Ex II 2G Ex e mb op is IIC T4 Gb
- IEC 60079-0, IEC 60079-7 and IEC 60079-18
- 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 white light, Morse code 'U' every 15 seconds or quick flash USCG by Navais Central Control Panel (other character on request)
- Effective intensity: 1400cd minimum (equals 10Nm 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: 12W peak; 2W average
- Connection details: max. 4mm<sup>2</sup>; one M25 cable gland entry
- 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: 21kg
- Degree of protection: IP66
- Operating temperature range: -40°C to +55°C

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