

# L410EX-W-15F

## Explosion proof LED main & secondary marine light (15 & 10NM)

Explosion proof combined main & secondary marine light providing 15 and 10 nautical mile white omni-directional 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
- Main and secondary light with separate cable entries, power supply and internal wiring for effective redundancy
- Segregated LED modules for the Main and Secondary light part
- Suitable for Zone 1 and Zone 2 areas with gas explosion hazard
- 'U'-coded high voltage AC power supply from 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)

### STANDARDS/CERTIFICATION

- Certified to UK Department of Energy and Climate Change; Standard marking schedule for offshore installations – April 2011, chapter 3.1 (c) – Main lights
- Certified to UK Department of Energy and Climate Change; Standard marking schedule for offshore installations – April 2011, chapter 3.1 (f) – Secondary light
- 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)

### PHYSICAL CHARACTERISTICS

- Dimensions (L x W x H): 447 x 416 x 776 mm
- Weight: 55kg
- Degree of protection: IP66
- Operating temperature range: -40°C to +50°C

### PERFORMANCE CHARACTERISTICS

- Flashing white light, Morse code 'U' every 15 seconds by NCCP
- Effective intensity: 15NM light: 12,000cd minimum (equals 15NM at ATF=0.74) and 10 NM light: 1,400cd minimum (equals 10NM at ATF=0.74)
- Horizontal beam coverage: 360°
- Vertical beam profile: 2.5° FWTM minimum

### ELECTRICAL CHARACTERISTICS

- Operating voltage ('U'-Coded from the NCCP): 15NM light: 230Vac; 50-60Hz and 10NM light: 230Vac max, 400Hz
- Power consumption: 15NM light: 125W peak; 21W average and 10NM light: 12W peak; 2W average
- Connection details: 15NM light: max. 4 mm<sup>2</sup>; one M25 cable gland entry and 10NM light: max. 4 mm<sup>2</sup>; one M25 cable gland entry
- Earth connection: internal max. 4mm<sup>2</sup> and external M5

### SYSTEM DESIGN, CONTROL AND MONITORING

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

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