

# L420EX-R-03

## Explosion proof LED marine light (3 NM) Decentralised 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 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
- Suitable for a 12VDC or 24VDC power supply\*
- Wireless synchronisation via GPS (separate synchronisation cable not required).
- 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 contact 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

- Complies with UK Department of Energy and Climate Change; Standard marking schedule for offshore installations – April 2011, chapter 3.2 (f) – Subsidiary light
- Complies with 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

### PERFORMANCE CHARACTERISTICS

- Flashing red light, Morse code 'U' every 15 seconds or quick flash USCG (other character on request)
- Effective intensity: 15cd minimum (equals 3NM at ATF=0.74)
- Horizontal beam coverage: 360°
- Vertical beam profile: 2.5° FWTM minimum

### 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

### ELECTRICAL CHARACTERISTICS

- Operating voltage: 11 – 30 VDC\*
- Power consumption: Approx. 1W average during operation at specified flash character
- Connection details: max. 4mm<sup>2</sup>; one M25 cable gland entry
- Earth connection: internal max. 4mm<sup>2</sup> and external M5

### SYSTEM DESIGN, CONTROL AND MONITORING

- \*Power, control and monitoring functions by a small, locally mounted control box
- Synchronisation via GPS or optional hard wired.

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