

L420EX-R-03

Ex certified LED marine light (3 NM) for decentralised systems

Certified marine light for zone 1 and 2 gas hazardous areas marine light providing 3 nautical mile red omnidirectional visual coverage for offshore structures. The design, with long life LEDs, makes the product ideal for harsh 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 12 VDC or 24 VDC power supply*
- Wireless synchronisation via GPS possible (separate synchronisation cable not required).
- Light intensity including 25% service factor as per IALA E-200 (2008)
- 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 IALA regulation; O-139 September 2020; chapter 2, paragraph 2.2 – Subsidiary lantern
- Complies with IALA guideline; G1162 December 2021, chapter 2.3 – Subsidiary lantern
- Complies with UK DECC April 2011, chapter 3.2 (f) – Subsidiary light
- Complies with US Coast Guard; 33 C.F.R. Part 67 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 Ex II 2G Ex e mb op is IIC T4 Gb
- 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

PERFORMANCE CHARACTERISTICS

- Flashing red light, Morse code 'U' every 15 seconds or quick flash USCG (other character on request)
- Effective intensity: 15 cd minimum (equals 3 NM 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. 4mm²; one M25 cable gland entry
- Earth connection: internal max. 4mm² 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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