

L420EX-W-10

Ex certified LED marine light (10 NM) for decentralised systems

Certified marine light for zone 1 and 2 gas hazardous areas marine light providing 10 nautical mile white 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 2.1.2 – Marine light
- Complies with IALA guideline; G1162 December 2021, chapter 2.3 – Main lantern
- Complies with UK DECC April 2011, chapter 3.1 (f) – Secondary light
- Complies with Mining regulations of The Netherlands – January 2022, Article 5.3 – Marine light
- 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 white light, Morse code 'U' every 15 seconds (other characters on request)
- Effective intensity: 1400 cd minimum (equals 10 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. 3W 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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