

L420EX-W-10

Explosion proof LED marine light (10 NM) Decentralised 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 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 IALA recommendation; O-139; The marking of man-made offshore structures – Dec. 2008, chapter 2.1.2 – Marine light
- Complies with UK Department of Energy and Climate Change; Standard marking schedule for offshore installations – April 2011, chapter 3.1 (f) – Secondary light
- Complies with Mining regulations of The Netherlands – Dec. 2002, 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: 1400cd minimum (equals 10NM 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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