





Steering lights



Description

Aqua Signal's LED Steering light blue is based on Series 60 LED navigation lights. Long product lifetime has been an essential priority when designing the single tier lanterns. A smart, tamper proof countdown system will also give the user a warning when it's time to replace the lanterns. Even at an ambient temperature at +45°C the lifetime is 100 000 hours.

Navigation lights are all about safety. Glamox has developed Series 60 to make worries about failing lanterns redundant.

Long product lifetime

The Series is designed to last for 100.000 hours at an ambient temperature of +45°C. That's twice the lifetime of most competing products. To achieve this kind of longevity the design must be sturdy and all components must be of high quality. This includes a high-quality LED driver and driver technology and the use of materials that can withstand rough weather and varying temperatures, such as seawater resistant aluminium, polycarbonate and hardened tempered glass.

The system lifetime of the LED light source and driver is 11 years given a continuous runtime, 24 hours a day at an ambient temperature of +45°C.

Integrated countdown system

Having a lantern come to end of life or fail while you're at sea is something you don't want to risk. This is why the Series 60 is equipped with a countdown system that will let you know when it's time to replace the navigation light. To make the system tamper proof the timer is integrated in each lantern while the message is communicated and displayed in the control panel. The system reflects the use of the lantern, whether it is exposed to cold temperatures and harsh weather or conditions with less wear and tear. This system provides added safety for the vessel.

Low EMC values

There are strict requirements for electromagnetic compatability (EMC) for lanterns that should be installed close to VHF antenna. Our lanterns type 60 have a low emission level and were tested and comply with the emission and immunity requirements of the IEC 60945.

A flexible choice

The lantern is designed to work with the Aqua Signal Navigation light control panel, but they offer a lot of flexibility because they can be operated with third party panels (1). The products are easy to install, only four bolts to fasten and the internal connection box offers a lot of space for connection wires. It can be installed upside-down.

(1) Compatibility must be confirmed by control panel supplier.

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Technical description

Light source	LED	Dimensions & Weight	Dimension: 154 mm × 190 mm × 180 mm
Housing	Polycarbonate housing and housing cover. Borosilicate glass. Top: Seawater resistant aluminium Stainless screws and nuts (Hexagon nuts M6)		Weight of plastic luminaire 24V: 1,5 kg Weight of plastic luminaire 115V–230V: 1,9 kg
		Quality	The products have gone through a series of tests including:
Ambient	>-25°C ≤ T ≤ +55°C		
Temperature Approvals	 EN 14744 (20015 – including AC 2006) Inland and Seagoing vessels - Navigational lights standards IEC 60945 Ed. 4.0, 2002 including Corr.1, 2008 Maritime navigation and radio equipment standards, including EMC 	Cable gland	 Shock tests (up to 15g, 3-Axes) Vibration testing (2.3g for 2 hours) Climatic testing (-25°C up to +55°C) Salt mist spray tests (level 6 at 1000 hours) EMC testing Tests for IP rating (Dust and water)
Installation	Large junction box and easy access to terminals		Polyamide, for outer cable Ø 9,00-17,00 mm Up to 400 m cable run
	 Minimum cable cross-section: 1.5 mm Maximum cable cross-section: 2.5 mm Maximum cable length must not exceed 400 meters 	Voltage / Frequency	115V/230V AC (50/60Hz) or 24V DC
		Basic facts	Lightsource: LED Protection class: IP66/IP67 Ambient Temperature: >-25°C ≤ T ≤ +55°C

<u>Operation</u>

- Can be operated by third party navigational light control panel
- Supplier of control panel must confirm compliance with Series 60 / Series 61&
- Able to measure low current draw

Closing of housing

- Hexagon nut M6 in all lateral slots
- Torque max 2,0 Nm

Easy to install to vessel structure

- Only four bolts to fasten
- Same dimensions as Series 55
- Can be installed up-side-down

