



NAVILED[®] PRO

Hella marine

Vision and Innovation

INSTRUCTION SHEET: Wheelmark certified NavILED[®] PRO

2 Nautical Mile Port / Starboard / Stern Lamp

for: **2LT 959 900-5xx / 2LT 959 908-5xx / 2LT 959 908-6xx /
2LT 959 900-6xx / 2LT 959 909-5xx / 2LT 959 909-6xx**

Hella marine LED navigation lamps offer many advantages over conventional bulb lamps. Significantly reduced power consumption, ultra long life and high tolerance to shock and vibration make the LED lamps the ideal choice for the harsh marine environment.

The Hella marine NavILED[®] PRO series are precision optical instruments, tested and type approved to comply with international maritime regulations. They are covered by a 5 year warranty.

Marine Equipment Directive Declaration of Conformities are available at www.hellamarine.com

Material Description

UV resistant lens (PMMA or ultra heavy duty Grilamid[®]),
high impact resistant shroud

Minimum Visible Distance

2 Nautical Miles

Cable

Pre-wired with 2.5m of twin core marine cable

Operating Voltage

Multivolt[™] 9-33V DC

Voltage Protection

Spike protected to +500 volts

Reverse polarity protected to -700 volts

Power Consumption

Less than 2W (0.14A @ 12V / 0.08A @ 24V)

Degree of Protection

IP 67 – Completely sealed

Weight

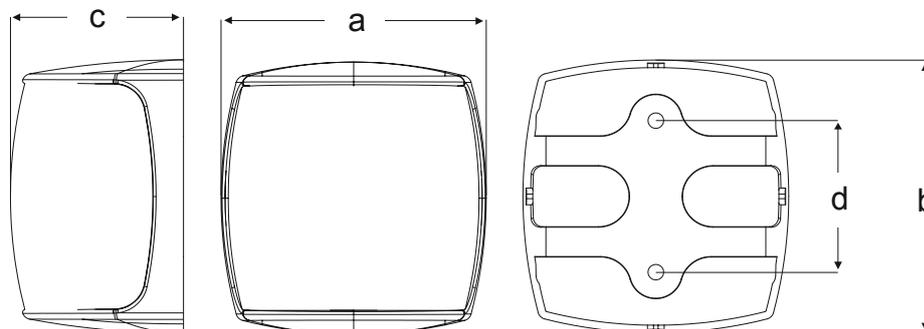
150g (including cable)

International Approval

IMO COL REG/USCG 33 CFR 183.810 2NM



Dimensions



a = 87mm / 3.43"
b = 90mm / 3.54"
c = 57mm / 2.25"
d = 50mm / 1.97"

Electromagnetic Compatibility (EMC)

This LED lamp is an electronic device. The electrical circuits contain components that suppress possible interference, both emission as well as susceptibility, to the limits prescribed in international regulations.

Protection against damage due to voltage spikes

This lamp is protected against reverse polarity connection, positive voltage spikes up to +500 volts and negative voltage spikes of up to 700 volts.



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Lamp positioning

General recommendations:

The signal arrow should point
- right ahead for port / starboard lamps
- right astern for stern lamps.

When the lamp is operating, the light should not be obstructed or concealed by superstructures or other objects.

Port and Starboard lamps:

Parallel to the vessel's centre line (see Fig.1) and in a vertical position (see Fig.2).

Must be mounted in the same thwartships position and at the same height above the construction water line, but at least 1 metre lower than the masthead lamp. Lamps should mark the effective beam of the vessel; if this is not possible, the distance between the side lamps should not be less than 85% of the maximum beam of the vessel.

Stern lamps:

At right angles to the vessel's centre line (see Fig. 1) and in a vertical position (see Fig.2).

Fig. 1 Position in relation to the vessel centre line

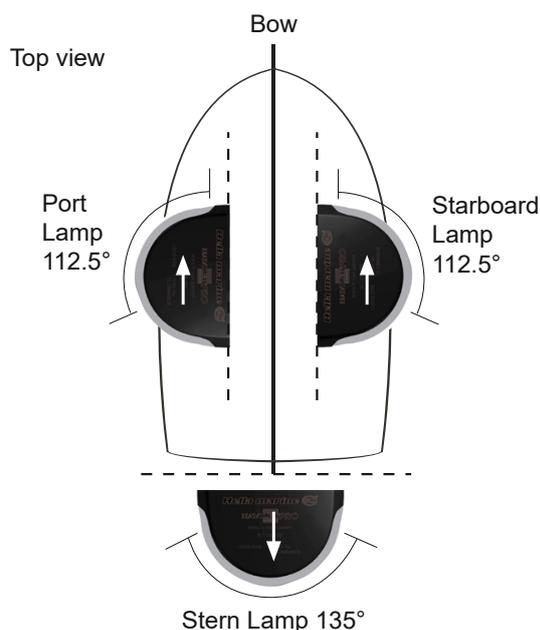
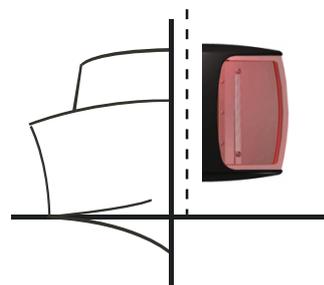


Fig. 2 Mount in vertical position

e.g bow on view with port lamp



Wiring Colour Coding

Colour	Connect to
Black	Negative (-ve)
Red	Signal (+ve)

LED modules are polarity conscious. Reverse polarity will not damage this product but will inhibit its function. HELLA recommends wire connections be soldered, and heat shrink tubing applied to seal the joint.

Note: Lamp must be protected by a fuse rated at 3 amperes maximum.



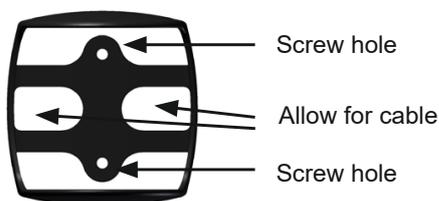
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Assembly

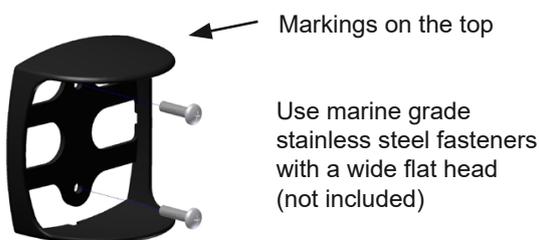
Step 1 – Make provision for the power cable

Use mounting shroud as a template to drill screw holes and make provision for the cable.



Step 2 – Mount the Shroud

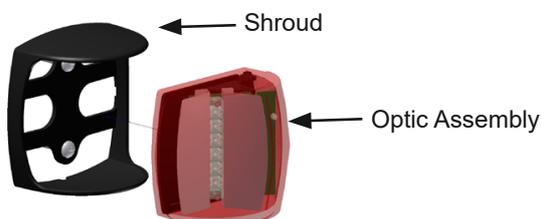
- 2.1 Shroud must be installed with markings on the top horizontal surface.
- 2.2 Arrow on top of shroud must point straight ahead.
- 2.3 Fix shroud with two M5 or 10 gauge fasteners.



Step 3 – Insert the optic assembly

Note: Arrow on top of shroud and arrow on top of optic assembly must point in the same direction.

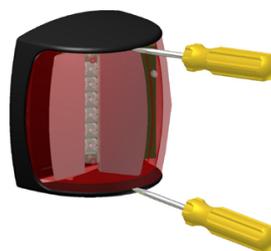
- 3.1 Feed power cable through shroud
- 3.2 Push optic assembly into shroud
- 3.3 Connect power



Removal

Step 1

Carefully insert 2 screw drivers between optic assembly and shroud.



Step 2

Pull optic assembly out.



Note: Do not open. No servicable parts inside.

www.hellamarine.com