

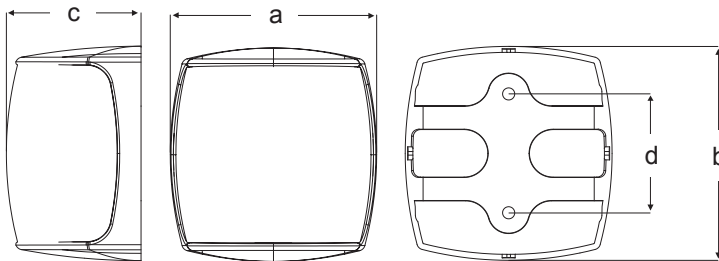
NaviLED PRO 2 Nautical Mile Port / Starboard / Stern Lamp

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.

Material Description	UV resistant lens, high impact shroud
Minimum Visible Distance	2 Nautical Miles
Cable	Pre-wired with 2.5m of 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	IP67 - Completely sealed
Weight	150g (including cable)

Dimensions



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 componen 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 and negative voltage spikes of up to 700 volts.

Warranty Statement

Congratulations! The product you have selected comes from Hella - one of the world's leading manufacturers of lighting products. The product comes with a 5 year warranty from end user purchase covering faults in materials, components or workmanship.

In the unlikely event that you should experience a confirmed warranty related problem with your purchase, Hella will, at its discretion, either repair, replace or refund the purchase price of the product.

Warranty services may be obtained by returning the product within the warranty period to the Hella Dealer where the product was originally purchased.

This warranty is in addition to and does not preclude any other rights or remedies available to the consumer under any local legislation related to the provision of goods or services.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty does not cover:

- 1.) Claim/s as a result of normal wear and tear or of any modifications and / or alterations to the product in any shape or form.
- 2.) Claim/s as a result of non-compliance of the assembly, service and operating instructions and/or any unfit or improper use.
- 3.) Any expenses incurred in the process of making the claim.



Port and Starboard Lamps:

Parallel to the vessels centre line. (see Fig.1)
Vertical to the vessels centre line. (see Fig.2)

Stern Lamps:

Right angles to the vessels centre line.
Vertical to the vessels centre line. (see Fig.2)

Signal direction arrow:

The arrow should point -
- right ahead for port / starboard lamps (side lamps)
- right astern for stern lamps.

Obstructions to the light output:

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

Port / Starboard (Side Lamps):

Must be mounted in the same thwartships position and at the same height above the construction water line (CWL), but at least 1 metre lower than the masthead lamp and 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.

Fig. 1 Parallel to the vessels centre line.

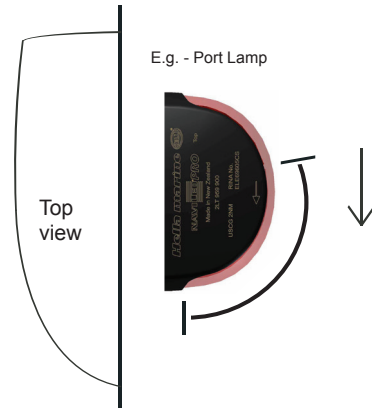
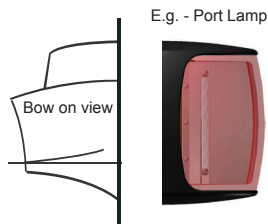


Fig.2 Vertical to the vessels centre line.



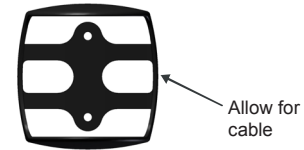
Wiring Colour Coding

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

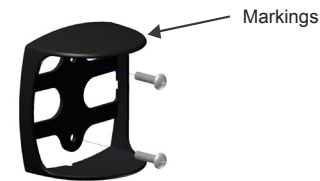
LED modules are polarity conscious. Reverse polarity will not damage this product but will inhibit its function. Hella recommends wire connections be soldered, and heat shrink tubing applied to seal the joint. **Note:** Lamp must be protected by a fuse rated at 5 amperes maximum.

Assembly and Removal Instructions

Assembly

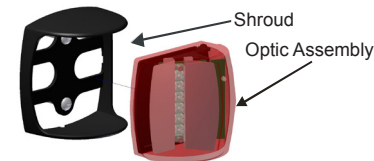


Step 1
Make Provision for the power cable



Step 2 - Mount the Shroud

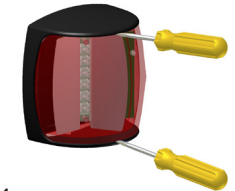
- 2.1 Shroud must be installed with markings on the TOP horizontal surface.
- 2.2 Arrow on top of shroud must point straight ahead for port, starboard, masthead and bi-colour lights and aft for stern lights.



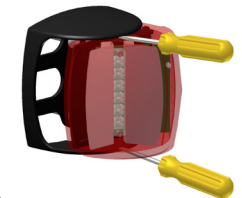
Step 3 - Insert the Optic Assembly
Note - Arrow on top of shroud and arrow on top of optic assembly must point in the same direction

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

Removal



Step 1
Insert screw driver between optic assembly and shroud



Step 2
Pull optic assembly out

Note: Do not open. No servicable parts inside.