

### 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.

### NAViLED PRO Bi-Colour Integrated Timer

To ensure long term safety, each NavILED PRO Bi-colour lamp is equipped with a timing circuit. Once the lamp has operated for a total time of 10,000 hours, the lamp activates 'Service Mode'.

Service Mode is indicated by the lamp flashing at a rate of 60 flashes per minute for 15 seconds as soon as the lamp is switched on. This will occur for 15 seconds every time the lamp is switched on until the unit has operated for another 2000 hours.

After 2000 hours the Service Mode flash rate doubles to 120 flashes per minute for 15 seconds as soon as the lamp is switched on.

To ensure the lamp meets the light output criteria of its certification, Hella marine recommends the light module be replaced as soon as it enters this 2000 hours Service Mode stage. By regular recreational boating standards, even with regular night sailing, 'Service Mode' will hardly ever be reached.



### BSH certified NavILED PRO 2 Nautical Mile Bi-Colour Navigation Lamp

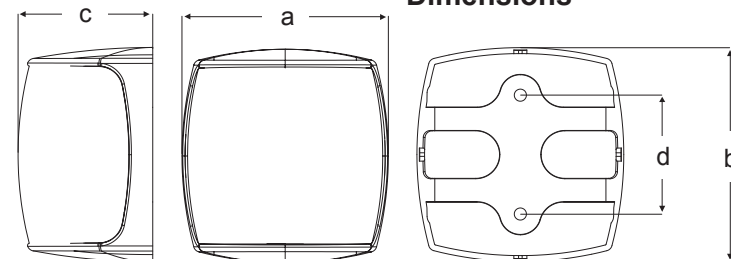
Hella marine LED navigation lamps offer many advantages over conventional bulb lamps. Significantly reduced power consumption, ultra long life and high tolerance to shock and vibration make the LED lamps the ideal choice for the harsh marine environment.

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.

<b>Material Description</b>	UV resistant lens, high impact shroud
<b>Minimum Visible Distance</b>	2 Nautical Miles
<b>Cable</b>	Pre-wired with 2.5m of marine cable
<b>Operating Voltage</b>	Multivolt 9-33V DC
<b>Voltage Protection</b>	Spike protected to +500 volts Reverse polarity protected to -700 volts
<b>Power Consumption</b>	Less than 2W (0.14A@12V/0.08A@24V)
<b>Degree of Protection</b>	IP67 – Completely sealed
<b>Weight</b>	150g (including cable)



### 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.

### Lamp positioning

**General recommendations**

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

**Position in relation to vessels centre line**

The lamp must be positioned in a vertical position at a right angle to the vessel's centre line with the signal direction arrow pointing straight ahead. (see Fig. 1)

**Horizontal positioning**

The lamp must be placed forward of amidships and as far forward as practicable. (see Fig. 2)

Fig. 1 Right angle to the vessel's centre line

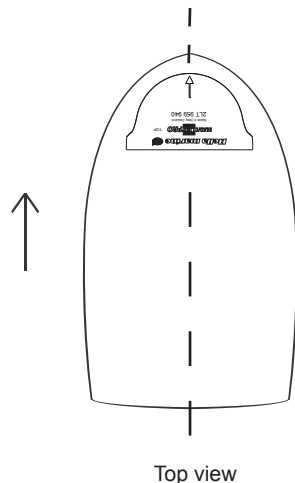
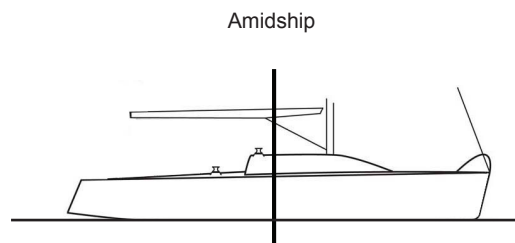


Fig. 2 Horizontal positioning



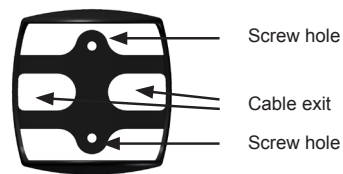
### Wiring Colour Coding

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.

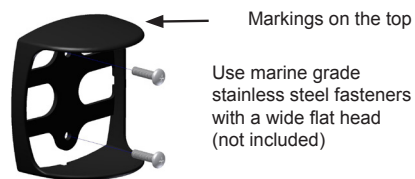
### Assembly

**Step 1 – Make provision for the power cable**  
Use mounting shroud as a template to drill screw holes and make provision for the cable.



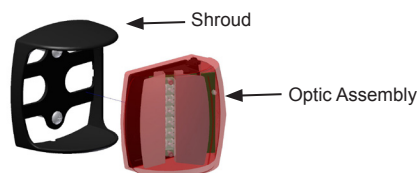
**Step 2 – Mount the Shroud**

- 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.



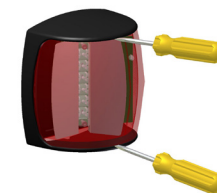
**Step 3 – Insert the optic assembly**  
*Note: Arrow on top of shroud and arrow on top of optic assembly must point in the same direction.*

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

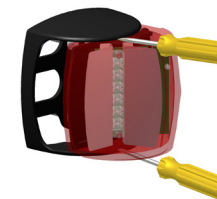


### Removal

**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.