

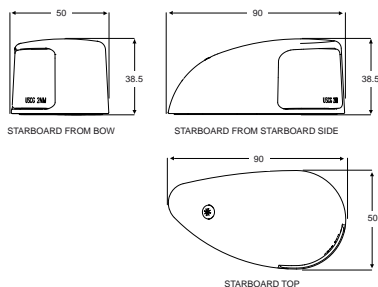
NaviLED® 2 Nautical Mile Horizontal Surface Mount Port and Starboard Lamps

Introduction

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 Hella marine LED lamps the ideal choice for the harsh marine environment.

Hella marine NaviLED® Navigation Lamps are 'Precision Optical Instruments', tested and type approved to comply with international maritime regulations.

Housing Description	UV resistant lens, High impact shroud
Light source	LED
Installation	Pre-wired with 500mm of marine cable
Operating Voltage	Multivolt™ 8-28V DC
Voltage Protection	Spike protected to 500V Reverse Polarity protected to -700V
Power Consumption	Port < 1W , Starboard < 1W
Protective System	IP 67



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 EN 60945.



Protection against damage due to voltage spikes

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

2 Nautical Mile NaviLED® International Approvals

This Hella marine 2 Nautical Mile NaviLED® Navigation Lamp is tested and type approved for Powerboats and Sailboats to comply with international maritime regulations.

Approval Type Length (LOA)	ABYC and NMMA Powerboats and Sailboats up to 20 meters in length.
Additional Approval Length (LOA)	USCG / IMO COL REG Powerboats and Sailboats up to 50 meters in length.
Approval Type Length (LOA)	RINA Powerboats and Sailboats up to 20 meters in length.

Please refer to www.hellamarine.com to view the RINA certificates.

Warranty Statement

Congratulations! The product you have selected comes from Hella marine - one of the world's leading manufacturers marine lighting products.

Hella marine branded products are covered by a warranty against manufacturing or material defects. (For further details please check the terms of trade with your Hella marine agent).

The lamp module is sealed and does not have any serviceable parts inside; opening the module will invalidate warranty. In the unlikely event that you should experience a problem with your purchase, please contact your Hella marine agent where you purchased the product.



Positioning of Port and Starboard Lamps

Installation angle.

Align the mounting holes of the base plate parallel to the vessels centre line. (see Fig.1)

Direction arrow points straight ahead.

Position on a vessel.

Mounted in the same thwartships position and at the same height above the water line and mark the effective beam of the vessel.

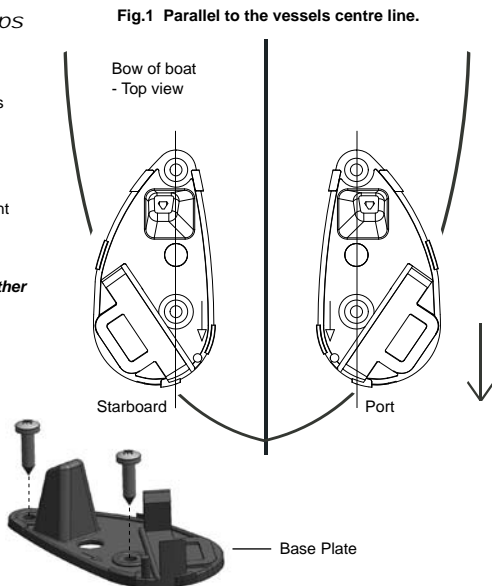
When the lamps are operating, the light should not be obstructed or concealed by superstructures, bow rails or other objects.

Installation Steps

Step 1 - Mount the Base Plate

Install the Base Plate so the line between the mounting holes is parallel with the vessels centre line. (see Fig.1)

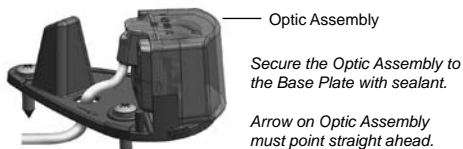
Direction arrow on base plate must point straight ahead when installed.



Step 2 - Mount the Optic Assembly

2.1 Clip the Optic Assembly into place. Secure with sealant.

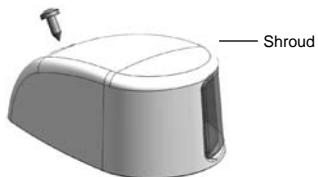
2.2 Pass the power cable through the hole in the centre of base plate. Seal the cable entry hole.



Step 3 - Attach the Shroud

2.1 Push cover into place over light engine, secure with supplied stainless steel screw. Do not over-tighten.

2.2 Connect power



Wiring Colour Coding

LED modules are polarity conscious.

Reverse polarity will not damage this product but will inhibit its function.

Hella marine recommends wire connections be soldered, and heat shrink tubing applied to seal the joint.

Colour	Connect to	Power
Black	Negative (-ve)	
Red	Signal (+ve)	<1W

Wiring

- Supply Voltage 8-28V (DC only)

NB: Lamp must be protected by a fuse rated at 5 amperes maximum.