



NaviLED®360 International Approvals

Hella Marine 2 Nautical Mile NaviLED®360 Anchor / All Round Lamps are tested and type approved to comply with international maritime regulations.

Approval Type	ABYC and NMMA
Length (LOA)	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 (TA No. ELE69605CS) Powerboats and Sailboats up to 50 meters in length. <i>Please refer to www.hellamarine.com to view the RINA certificate.</i>

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.

Housing Description	UV resistant acrylic lens, anodized aluminium base and tube
Light source	Single LED
Operating Voltage	Multivolt™ 9-33 volts DC
Power Consumption	Less than 2W
Protective System	Completely sealed

Wiring Colour Coding

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.

Colour	Connect to	Power
Black	Negative (-ve)	
Red	Signal (+ve)	Less than 2W

Wiring
- Supply Voltage 9-33V (DC only)

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

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.



For general comments about Hella's products please contact us on E-mail at techfeedback@hellamarine.com



INSTRUCTION SHEET

NaviLED®360 Anchor / All Round 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 the LED lamps the ideal choice for the harsh marine environment.

Hella Marine NaviLED®360 Anchor / All Round Lamps are 'Precision Optical Instruments', tested and type approved to comply with international maritime regulations.

Correct Positioning

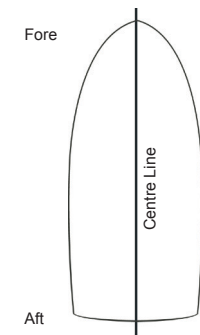
NaviLED®360 Anchor / All Round Lamps must be installed as follows;

When the lamp is operating, the light should not be obstructed or concealed by masts, topmasts or structures, (i.e. installed on the highest point of a vessel so the light output is unbroken)

An All Round light must be positioned on the fore and aft centre line of a vessel (see Fig.1)

The All Round light on a power driven vessel less than 12 meters in length shall be installed at least one meter higher than the sidelights.

Fig. 1 On the fore and aft centre line.



Installation requirements for specific NaviLED®360 mounting types;

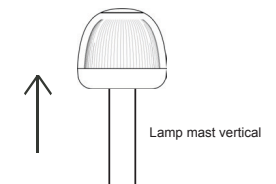
Fixed Mount Lamps -

Lamp must be installed so the lamp mast is vertical. (see Fig.2)

Fold Down Lamps -

Lamp must be installed so the lamp mast is vertical when operating. (see Fig.2)

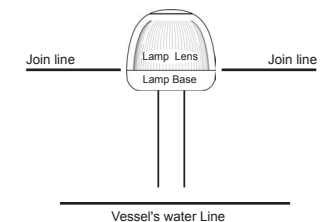
Fig. 2 Lamp mast vertical when operating. (Fixed and Fold Down mount only)



Plug-in pole mount lamps and Telescopic pole mount lamps -

Must be positioned so the join line between the lamp lens and lamp base is parallel when the lamp is operating. (see Fig.3)

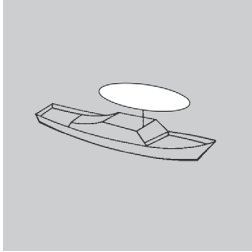
Fig. 3 Join line between lamp lens and lamp base must be parallel to water line.



www.hellamarine.com

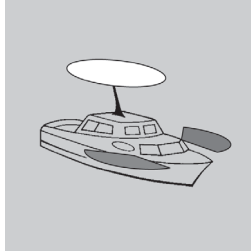
Navigation lamp requirements for Vessels under 20M in length according to ABYC and NMMA requirements.

Vessels up to 7M in length.
Maximum speed of 7 knots.



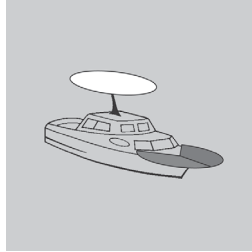
1 White All Round Lamp

Powerboats up to 12M in length.



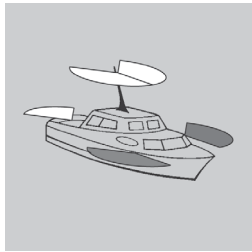
1 All Round Lamp
1 Port Lamp
1 Starboard Lamp

Powerboats up to 12M in length.



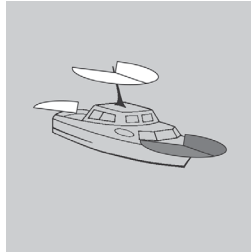
1 All Round Lamp
1 Bi-colour Lamp

Powerboats up to 20M in length.



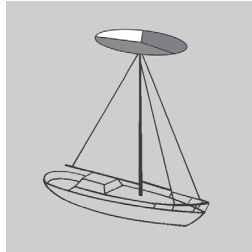
1 Masthead Lamp
1 Port Lamp
1 Starboard Lamp
1 Stern Lamp

Powerboats up to 20M in length.



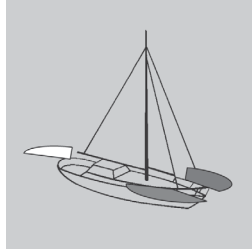
1 Masthead Lamp
1 Bi-colour Lamp
1 Stern Lamp

Yachts up to 20M in length sailing.



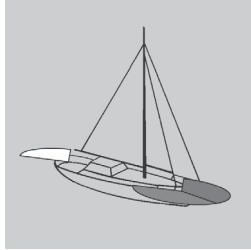
1 Tri-colour Lamp
When motoring, yachts must adopt the navigation lamp requirements for powerboats.

Yachts up to 20M in length sailing.



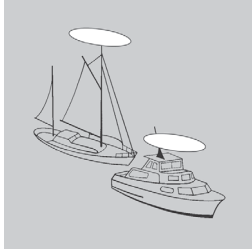
1 Port Lamp
1 Starboard Lamp
1 Stern Lamp

Yachts up to 20M in length sailing.



1 Bi-colour Lamp
1 Stern Lamp

Power boats and yachts up to 20M in length at anchor.



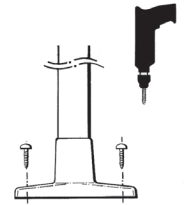
1 White All Round Lamp

The NaviLED®360 Range and Base Types

NaviLED®360 with fixed mount

Overall Length	Black Base	White Base
8" / 204 mm	2LT 959 910-011	2LT 959 910-111

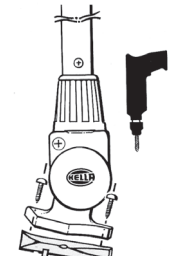
Fixed mount with two counter-sunk holes.



NaviLED®360 with fold down pole mount

Overall Length	Black Base	White Base
12" / 305 mm	2LT 959 910-621	2LT 959 910-721
20" / 500 mm	2LT 959 910-661	2LT 959 910-761
24" / 610 mm	2LT 959 910-631	2LT 959 910-731
34" / 850 mm	2LT 959 910-651	2LT 959 910-751

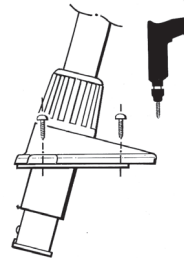
Lamp pole can be adjusted through 180 degrees and secured at desired angle with locking collar. Removable wedge for installation onto different surface cambers.



NaviLED®360 with plug-in pole mount

Overall Length	Black Base	White Base
24" / 610 mm	2LT 959 910-431	2LT 959 910-531
42" / 1070 mm	2LT 959 910-451	2LT 959 910-551

Pole plugs into lamp base and is fixed into position with locking collar. Rubber cap covers hole when pole is removed.



NaviLED®360 with telescopic pole mount

Overall Length	Black Base	White Base
24" / 610 mm	2LT 959 910-231	2LT 959 910-331

Pole slides out of base and is fixed in its fully extended position with locking collar.

