**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**: USCG / IMO COL REG
- **Length (LOA)**: Powerboats and Sailboats up to 50 meters in length.
- **Approval Type**: RINA (TA No. ELE6905CS)
- **Length (LOA)**: Powerboats and Sailboats up to 50 meters in length.

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

**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**

- **Light source**: Single LED
- **Operating Voltage**: Multivolt™ 9-33 volts DC
- **Power Consumption**: Less than 2W
- **Protective System**: Completely sealed

**Correct Positioning**

- **NaviLED® 360 Anchor / All Round Lamps**

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.

**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)

- **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)

**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.

<table>
<thead>
<tr>
<th>Colour</th>
<th>Connect to</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Negative (-ve)</td>
<td>Less than 2W</td>
</tr>
<tr>
<td>Red</td>
<td>Signal (+ve)</td>
<td>Less than 2W</td>
</tr>
</tbody>
</table>

**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
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
1 All Round Lamp
1 Port Lamp
1 Starboard Lamp

Powerboats up to 12M in length.

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

Powerboats up to 20M in length.

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

Yachts up to 20M in length sailing.

1 Bi-colour Lamp
1 Stern Lamp

Yachts up to 20M in length at anchor.

1 White All Round Lamp
1 Bi-colour Lamp
1 Stern Lamp

The NaviLED®360 Range and Base Types

**Naviled®360 with fixed mount**

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Black Base</th>
<th>White Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>8” / 204 mm</td>
<td>2LT 959 910-011</td>
<td>2LT 959 910-111</td>
</tr>
</tbody>
</table>

Fixed mount with two counter-sunk holes.

**Naviled®360 with fold down pole mount**

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Black Base</th>
<th>White Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>12” / 305 mm</td>
<td>2LT 959 910-621</td>
<td>2LT 959 910-721</td>
</tr>
<tr>
<td>20” / 500 mm</td>
<td>2LT 959 910-661</td>
<td>2LT 959 910-761</td>
</tr>
<tr>
<td>24” / 610 mm</td>
<td>2LT 959 910-631</td>
<td>2LT 959 910-731</td>
</tr>
<tr>
<td>34” / 850 mm</td>
<td>2LT 959 910-651</td>
<td>2LT 959 910-751</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Black Base</th>
<th>White Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>24” / 610 mm</td>
<td>2LT 959 910-431</td>
<td>2LT 959 910-531</td>
</tr>
<tr>
<td>42” / 1070 mm</td>
<td>2LT 959 910-451</td>
<td>2LT 959 910-551</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>Black Base</th>
<th>White Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>24” / 610 mm</td>
<td>2LT 959 910-231</td>
<td>2LT 959 910-331</td>
</tr>
</tbody>
</table>

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

www.hellamarine.com