Hella marine HELLA®

Vision and Innovation

Product Catalogue

www.hellamarine.com

Hella marine

Vision and Innovation

Welcome to the Hella marine catalogue, your guide to our marine lighting products engineered for safety, reliability and high performance.

For over 80 years, Hella marine has been a leading lighting manufacturer. Today highly advanced LED and bulb technologies are applied to produce Navigation Lamps, Deck Floodlights, Search Lamps, Interior and Exterior Lamps and Boat Trailer lighting.

Auckland, New Zealand.

About Hella marine

Hella marine is a worldwide marine lighting specialist represented in over 40 countries. The range was first created in 1925 by Hella KG in Germany and relocated to Austria in 1993.
Today Hella marine is headquartered in New Zealand - a country with a rich maritime history of boat building and yacht racing success.
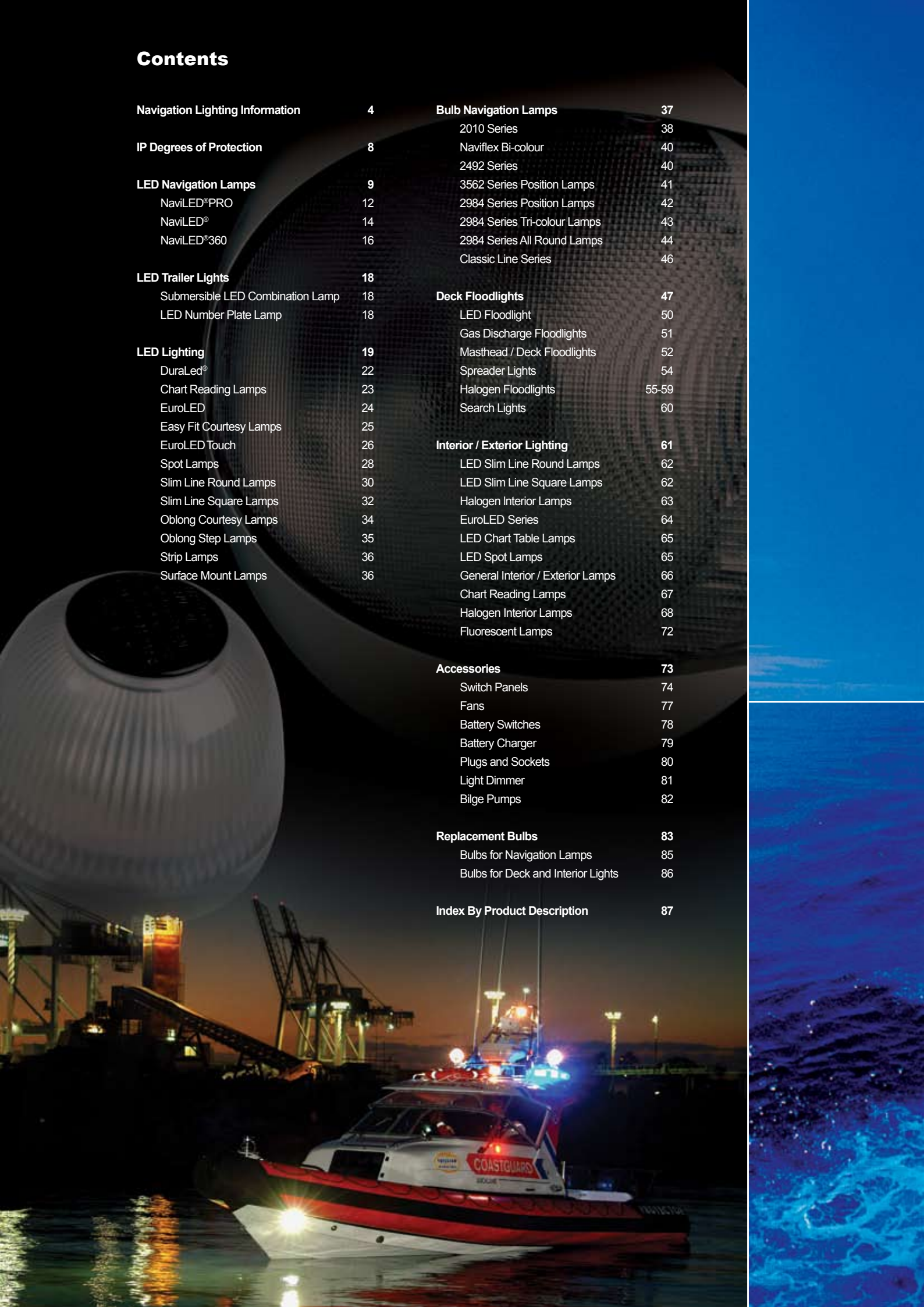
Hella New Zealand was founded in 1973 to manufacture, market and distribute products. Today our company designs and manufactures innovative lighting solutions for the marine, commercial transport and automotive sectors using advanced LED technology.

Over a decade of LED expertise is now being channelled into sophisticated navigation and lighting systems. With these products, Hella marine is a supplier to yacht and powerboat manufacturers, marine re-sellers and commercial fleets around the world.

Hella New Zealand is certified to ISO 9001:2000.

Contents

International Standards

Hella marine navigation lamps comply with the International Regulations for Prevention of Collisions at Sea (IMO COLREG 72).

This IMO compliance, together with supplementary national requirements, is listed with each navigation lamp series throughout the catalogue.

Main approval types.

IMO COL REG 72	Complies with IMO (International Maritime Organization) requirements under the International Regulations for the Prevention of Collisions at Sea. (IMO COLREG 72) IMO COLREG 72 forms the international basis for legal navigation lighting on vessels.
BSH	Approved by the German BSH (Bundesamt für Seeschifffahrt und Hydrographie) and carry BSH type approval numbers. BSH was formerly called DHI (Deutsches Hydrographisches Institut).
RINA	Approved by the Italian RINA (Registro Italiano Navale) authority. Approved lamps carry a RINA type approval number.
USCG	Complies with USCG (United States Coast Guard) requirements. Lamps carry a marking for minimum visible distance in nautical miles, eg USCG 2 NM.
ABYC **A-16**	Complies with ABYC (Amercian Boat and Yacht Council) Navigation Lamp Standard A-16.

For vessels less than 50 metres in length overall, IMO COLREG 72 describes the following minimum visible distances for navigation lamps.
Supplementary national approvals may also apply. Distances are in Nautical Miles.

Vessels less than 12 metres in length:
    White, Red, Green All Round lamps, 2 miles
    Masthead lamp, 2 miles
    Port and Starboard lamps, 1 mile
    Stern lamp, 2 miles
    Tri-colour lamp, 2 miles. (Sailing vessels under sail only)

Vessels less than 20 metres in length:
    White, Red, Green All Round lamps, 2 miles
    Masthead lamp, 3 miles
    Port and Starboard lamps, 2 miles
    Stern lamp, 2 miles
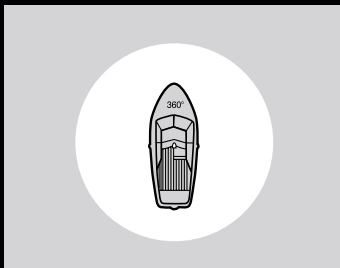   Tri-colour lamp, 2 miles. (Sailing vessels under sail only)

Vessels less than 50 metres in length:
    White, Red, Green All Round lamps, 2 miles
    Masthead lamp, 5 miles
    Port and Starboard lamps, 2 miles
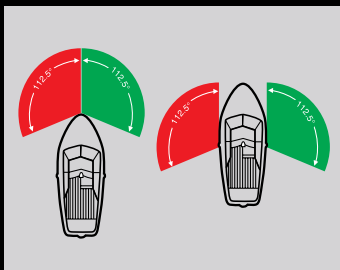   Stern lamp, 2 miles

Definitions

IMO COLREG definitions for navigation lighting.

"All Round Lamp"
A light showing an unbroken arc over the horizon of 360 degrees.

All Round Lamps may output white light, red light or green light.

"Side Lights"
A green light on the starboard side (Starboard lamp) and a red light on the port side (Port lamp) each showing an unbroken light over an arc of the horizon of 112.5 degrees and fixed to show the light from right ahead to 22.5 degrees (2 points) abaft the beam.
On a vessel less than 20 metres in length sidelights may be combined into one lamp (a 'Bi-colour' Lamp) carried on the fore and aft centre line of the vessel.
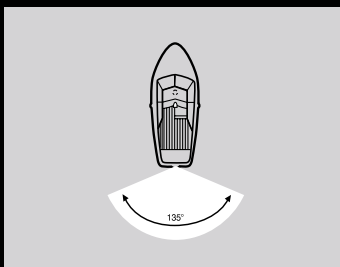
"Stern Lamp"
A white light placed as close as practicable to the stern showing an unbroken light over an arc of the horizon of 135 degrees and so fixed to show the light from right aft for 67.5 degrees (6 points) on both sides of the vessel.

"Towing Lamp"
A yellow light placed in a vertical position above the stern lamp showing an unbroken light over an arc of the horizon of 135 degrees and so fixed to show the light from right aft for 67.5 degrees (6 points) on both sides of the vessel.
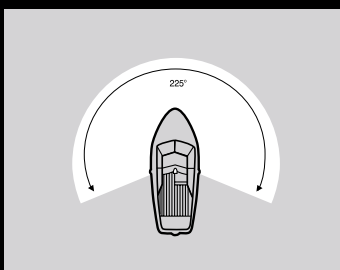
"Masthead Lamp"
A white light placed over the fore and aft centre line of the vessel showing an unbroken light over an arc of the horizon of 225 degrees and fixed to show the light from right ahead to 22.5 degrees (2 points) abaft the beam on both sides of the vessel.
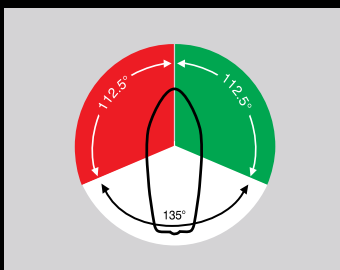
"Tri-colour Lamp"
On a sailing vessel less than 20 metres in length under sail, the sidelights and stern light may be combined into one lamp positioned on top of the mast. When the sailing vessel is under power, the tri-colour lamp must be switched off and the navigation lamp rules for power driven vessels apply.

IMO COLREG 72 Lights and Visibility - Powerboats

IMO COLREG requirements for navigation lighting on powerboats less than 50m LOA (Length Overall).

Note - Sailboats under motor adopt the rules for Powerboats.

Powerboats up to 7m. Max 7 knots

1 All Round White lamp

Powerboats up to 12m where Masthead and Stern lamps cannot be mounted
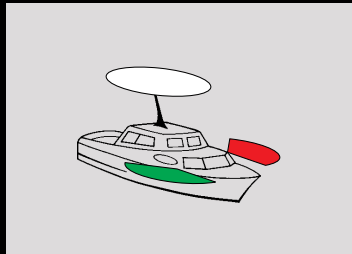
1 All Round White lamp
1 Port lamp
1 Starboard lamp

Powerboats up to 12m where Masthead and Stern lamps cannot be mounted
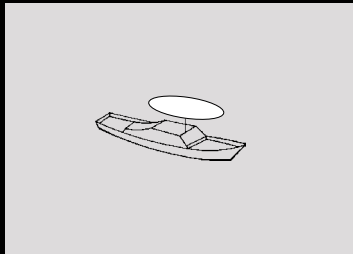
1 All Round White lamp
1 Bi-colour lamp

Powerboats up to 20m
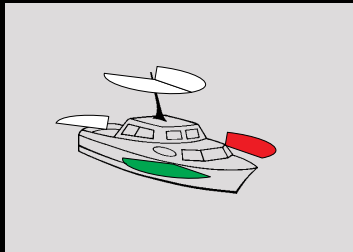
1 Masthead lamp
1 Port lamp
1 Starboard lamp
1 Stern lamp

Powerboats up to 20m
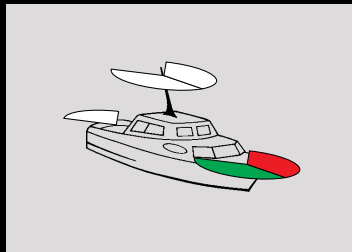
1 Masthead lamp
1 Bi-colour lamp
1 Stern lamp

Powerboats up to 50m
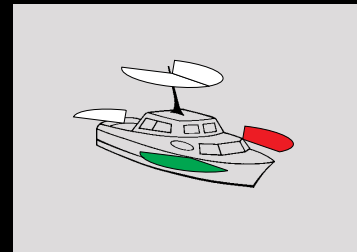
1 Masthead lamp
1 Port lamp
1 Starboard lamp
1 Stern lamp

A vessel less than 50m engaged in trawling
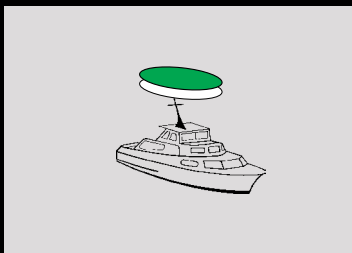
1 All Round Green lamp
1 All Round White lamp
mounted above one another

A vessel less than 50m engaged in fishing, other than trawling
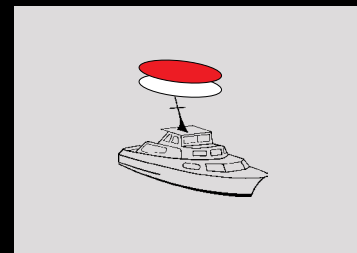
1 All Round Red lamp
1 All Round White lamp
mounted above one another

Powerboats towing with a tow length of less than 200m
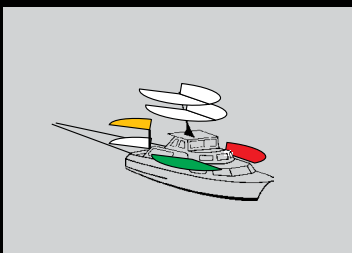
In addition to Port, Starboard and Stern lamps
1 Towing lamp mounted above the stern lamp
2 Masthead lamps in a vertical line
(When the tow length exceeds 200m, three Masthead lamps in a vertical line)

A vessel engaged in diving operations
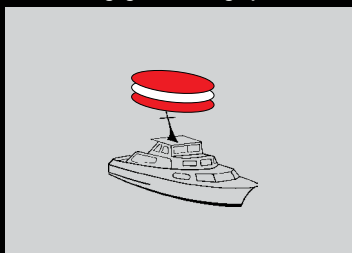
1 All Round Red lamp
1 All Round White lamp
1 All Round Red lamp
mounted above one another

A vessel engaged in pilotage duty
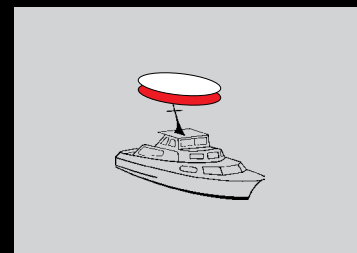
In addition to Port, Starboard, Masthead and Stern lamps
1 All Round White lamp
1 All Round Red lamp
mounted above one another

IMO COLREG 72 Lights and Visibility - Sailboats

**IMO COLREG requirements for navigation lighting on sailboats less than 50m LOA (Length Overall).**

Note - Sailboats under motor adopt the rules for Powerboats.

Sailboats up to 20m under sail
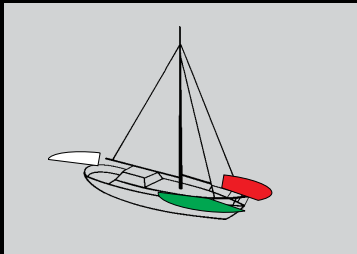
1 Port lamp
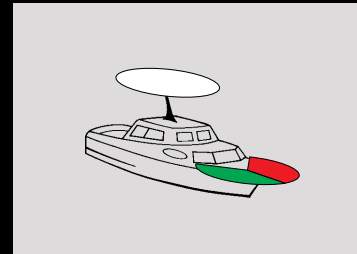1 Starboard lamp
1 Stern lamp

Sailboats up to 20m under sail
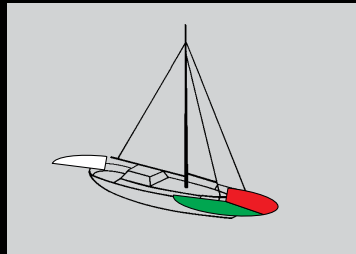
1 Bi-colour lamp
1 Stern lamp

Sailboats more than 20m under sail
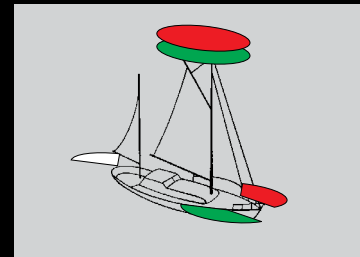
1 All Round Red lamp Above
1 All Round Green lamp
1 Port lamp
1 Starboard lamp
or 1 Bi-colour lamp
1 Stern lamp

Sailboats up to 20m under sail
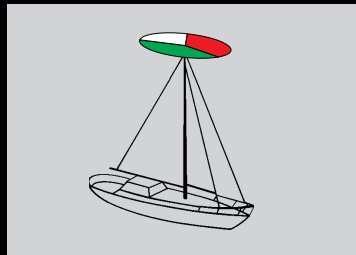
1 Tri-colour lamp

Sailboats and Powerboats less than 50m at anchor
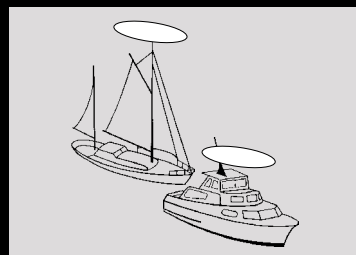
1 All Round White lamp

Sailboats and Powerboats more than 12m grounded
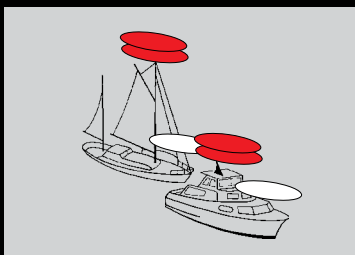
1 All Round White lamp
2 All Round Red lamps
mounted above one another

Sailboats and Powerboats more than 12m not under command
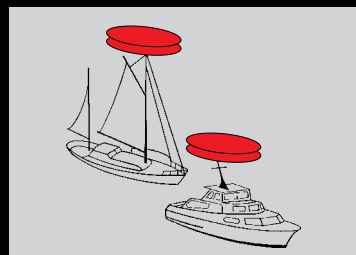
In addition to Port, Starboard and Stern lamps
2 All Round Red lamps
mounted above one another

Sailboats and Powerboats more than 12m manoeuvring with difficulty
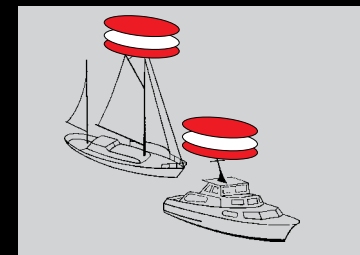
In addition to Port, Starboard and Stern lamps
1 All Round Red lamp
1 All Round White lamp
1 All Round Red lamp
mounted above one another

IP Degrees of Protection Definition

IP stands for International Protection, the IP degrees of protection are determined by DIN 40050 part 9.
This standard exists to specify the exact protection of electrical equipment against penetration by solid foreign matter, including dust and water. The exact degree of protection is achieved by various tests.

eg;   The IP rating of the 8517 series deck floodlight is listed as IP 6K 9K.
        This means dust tight and protected from high pressure cleaning.

IP 6K 9K

First numeral
– Protection against the ingress of solid foreign objects (table 1)

Second numeral
– Protection against the ingress of water (table 2)

Table 1:
Protection against the ingress of solid foreign objects (including dust)

X	not tested
0	not protected
1	solid foreign objects $\varnothing \geq 50$ mm
2	solid foreign objects $\varnothing \geq 12.5$ mm
3	solid foreign objects $\varnothing \geq 2.5$ mm
4	solid foreign objects $\varnothing \geq 1.0$ mm
5 and 5K	dust protected
6 and 6K	dust tight

Table 2:
Protection against the ingress of water

X	not tested
0	not protected
1	vertical dripping
2	dripping (inclined 15°)
3	spraying
4	splashing
4K	same with increased pressure
5	jetting
6	powerful jetting
6K	same at increased pressure
7	temporary immersion
8	continuous immersion
9K	high pressure/steam jet cleaning

LED Navigation Lamps

Hella marine **HELLA**®

Vision and Innovation

LED Navigation Lamp Technology

Hella marine LED (Light Emitting Diode) navigation lamps provide power saving, highly visible and ultra durable lighting for reliability and safety at sea.

Benefits of LED lighting technology;

Ultra Low Power Consumption.
Combining efficient LED light sources with advanced optic technology, Hella marine LED products deliver more light output per watt than traditional bulb lamps and thus provide considerable power saving.
Hella marine NaviLED®PRO navigation lamps use less than 10% of the power required to run a 25W incandescent bulb navigation lamp certified to the same visible distance.

No bulbs, No maintenance. Ultra long service life.
Hella marine LED technology has no filaments to break, thus making the LED lamps extremely shock and vibration resistant for reliable illumination and safety.
Our engineering team has developed a unique range of highly demanding tests to lift product reliability to new standards.

Safe and highly visible.
Advanced LED navigation lamp optics deliver optimal horizontal and vertical light distribution according to international standards. They provide enhanced visibility compared to bulb navigation lamps. Cut-off angles are ultra precise, clearly indicating a vessel's movement and heading.

Fully sealed for life.
Each Hella marine LED lamp is a completely sealed opto electronic device. Proven design, precision engineering, and the use of high impact acrylic materials ensures superior resistance to water, impact, UV and general wear and tear.

Pre-wired with marine cable.
Hella marine LED lamps are pre-wired with quality marine specification tinned cable. The cable is completely sealed to the lamp body providing time saving at installation and reliable electrical connection.

LED *Multivolt*

Multivolt™ technology for durability and safety.
Advanced Multivolt™ circuitry provides a uniform level of intensity for reliable and safe illumination across a range of DC inputs such as 8-28 volts or 9-33 volts. Multivolt™ LED lamps can be connected to 12 or 24 volt systems without modification, providing full light performance and automatic compensation for low battery voltages and voltage drop over long cables and connections.
Hella marine Multivolt™ LED lamps are also reverse polarity and spike protected for enhanced durability even under severe voltage fluctuations.

CE

Electromagnetic Compatibility (EMC)
All Hella marine LED products are electronic devices. Their electrical circuits contain components that suppress possible interference, both emission as well as susceptibility to immissions, to the limits prescribed in international standards.

LED Lighting Technology

BSH NaviLED®PRO Self Diagnostic Control

Hella marine NaviLED®PRO BSH LED navigation lamps are type approved and certified according to the European norm EN 14744 by the German Federal Maritime and Hydrographic Agency (BSH) for German inland waterways and the open sea.

To ensure long term safety at sea, each NaviLED®PRO BSH navigation lamp is equipped with a sophisticated self diagnostic control.

A photometrical self-test is carried out by the lamp in periodic intervals. If the light output, and consequently the visibility, reaches a pre-determined value, 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 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 hour Service Mode stage.

The 2000 Service Mode flash rate should not occur earlier than tens of thousands of hours. By regular recreational boating standards, even with regular night sailing, this stage will hardly ever be reached.

NaviLED®PRO Photometric Testing

Hella marine NaviLED®PRO LED navigation lamps have ultra precise horizontal and vertical cut-off angles to clearly indicate a vessel's movement and heading.

Every individual NaviLED®PRO lamp is photometrically verified in production by a sophisticated goniometer to ensure compliance with the intensity and cut-off requirements of international navigation lamp standards.

After passing photometric testing, a unique serial number is laser engraved onto the lamp lens. This serial number is referenced to individual test reports which are electronically archived by Hella marine, ensuring international navigation lamp standards are consistently met.

Welcome to the future of navigation lighting,

NaviLED®PRO from Hella marine.
Ultra durable, power saving LED navigation lamps for enhanced safety.

NAVILED®PRO

BSH Certified — NaviLED®PRO LED Navigation Lamps

- *Ultra low power consumption*
- *Ultra long service life*
- *Multivolt™*
- *Safe and highly visible*
- *Fully sealed for life*
- *UV and Corrosion resistant*
- *Shock and Vibration resistant*
- *Pre-wired*
- *Fit and Forget*

Hella marine NaviLED®PRO lamps are a quantum leap forward in energy efficiency and durability.

Ultra low current draw.
NaviLED®PRO lamps use less than 10% of the power required to run a bulb navigation lamp.
Port, Starboard and Stern lamps consume less than 3.2 watts combined !

No bulbs, No maintenance. Ultra long service life.
Hella marine LED technology has no filaments to break making NaviLED®PRO lamps extremely shock and vibration proof for reliability and safety in demanding conditions.

Multivolt™ 9-33V DC.
Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

Safe and highly visible.
Hella marine optics deliver 100% correct light output and enhance visibility compared to bulb navigation lamps. Each BSH lamp incorporates self diagnostic technology for long term reliability and safety.

Fully sealed for life. IP 67 Certified.
Each NaviLED®PRO lamp is a completely sealed unit. High impact housings ensure durability from waves and impact.
Ultra heavy duty BSH versions use high-tech Polyamide housings to offer superior strength in extreme conditions.

Pre-wired with 2.5m of marine cable.
Ensures time saving, waterproof installations.

Internationally approved and now BSH Certified.
Meets the requirements of COL REG, USCG, RINA.
BSH versions certified for German inland waterways and the open sea.

NAVILED®PRO

High Impact Lens - Port lens is red, Starboard lens is green.

Ultra Heavy Duty Lens - Port lens is clear, Starboard lens is clear.

Housing Description	UV resistant, enhanced impact resistant acrylic lens
	High impact shroud
Minimum Visible Distance	2 Nautical Miles (Yachts and Powerboats)
	3 Nautical Miles (Powerboats only)
Light Source	Multiple LEDs
Installation	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	Port, Starboard and Stern - Less than 3.2W combined
	Masthead - Less than 2.5W
Degree of Protection	IP 67
Approvals	BSH ⚓D.06.419 BSH/4615/6010419/06
	IMO COLREG, USCG, RINA (I), ABYC A-16

57mm · 87mm · 50mm · 90mm
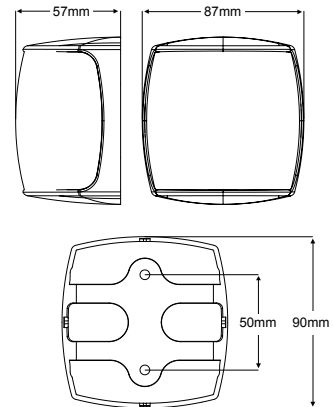
BSH Certified LED Navigation Lamps

BSH Certified · BSH · IMO COL REG 72

LED *Multivolt* — High Impact Lens

	NM	Black Shroud	White Shroud
Powerboat and Yacht			
Port	2 NM	2LT 959 900-501	2LT 959 900-511
Starboard	2 NM	2LT 959 908-501	2LT 959 908-511
Stern	2 NM	2LT 959 909-501	2LT 959 909-511
Masthead *	3 NM	2LT 959 940-501	2LT 959 940-511

* for Powerboats and Sailing Yachts under motor

LED *Multivolt* — Ultra Heavy Duty Lens

	NM	Black Shroud	White Shroud
Powerboat and Yacht			
Port	2 NM	2LT 959 900-601	2LT 959 900-611
Starboard	2 NM	2LT 959 908-601	2LT 959 908-611
Stern	2 NM	2LT 959 909-601	2LT 959 909-611
Masthead *	3 NM	2LT 959 940-601	2LT 959 940-611

* for Powerboats and Sailing Yachts under motor

COLREG, USCG, RINA (I), ABYC A-16 Certified LED Navigation Lamps

IMO COL REG 72 · USCG · RINA · ABYC A-16

LED *Multivolt* — High Impact Lens

	NM	Black Shroud	White Shroud
Powerboat and Yacht			
Port	2 NM	2LT 959 900-001	2LT 959 900-011
Starboard	2 NM	2LT 959 908-001	2LT 959 908-011
Stern	2 NM	2LT 959 909-001	2LT 959 909-011

LED *Multivolt* — High Impact Lens

	NM	Black Shroud	White Shroud
Powerboat			
Port	3 NM	2LT 959 900-201	2LT 959 900-211
Starboard	3 NM	2LT 959 908-201	2LT 959 908-211
Stern	3 NM	2LT 959 909-201	2LT 959 909-211
Masthead *	3 NM	2LT 959 940-201	2LT 959 940-211

* for Powerboats and Sailing Yachts under motor

the future of navigation lighting continues.....

Compact LED navigation lamps from Hella marine.
attractive, power saving and ultra reliable.

NAVI**LED**®

- *Ultra low power consumption*

- *Ultra long service life*

- *Multivolt™*

- *Safe and highly visible*

- *Fully sealed for life*

- *UV and Corrosion resistant*

- *Shock and Vibration resistant*

- *Pre-wired*

- *Fit and Forget*

Attractive and compact Hella marine NaviLED® LED navigation lamps save power onboard and provide outstanding durability.

Ultra low current draw.
NaviLED® lamps use less than 10% of the power required to run a bulb navigation lamp of the same visible distance.
Port and Starboard lamps consume less than 2 watts combined !

No bulbs, No maintenance. Ultra long service life.
Hella marine LED technology has no filaments to break making NaviLED® lamps extremely shock and vibration proof for reliability and safety in demanding conditions.

Multivolt™ 8-28V DC.
Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

Safe and highly visible.
Hella marine optics deliver 100% correct light output and enhance visibility compared to bulb navigation lamps.

Fully sealed for life. IP 67 Certified.
Each NaviLED® lamp is a completely sealed unit. High impact housings ensure durability from waves and impact.

Pre-wired with marine cable.
Ensures time saving completely sealed installations.

Internationally approved.
Meets the requirements of COL REG, USCG, RINA.

Port
Coloured outer lens

Port
Clear outer lens

Starboard
Coloured outer lens

Starboard
Clear outer lens

Stern
Clear outer lens

Towing
Coloured outer lens

Housing Description	UV resistant, enhanced impact resistant acrylic lens
	High impact shroud
Minimum Visible Distance	2 Nautical Miles (Yachts and Powerboats)
Light Source	LED
Installation	Pre-wired with 120mm of single core marine cable
	or 2.5m of twin core marine cable
Operating Voltage	Multivolt™ 8-28V DC
Voltage Protection	Spike protected to +500 volts
	Reverse polarity protected to -700 volts
Power Consumption	Port and Starboard less than 2W combined
	Stern less than 2W, Towing less than 2W
Degree of Protection	IP 67
Approvals	IMO COLREG, USCG, RINA (I), ABYC A-16

50
33   71
53
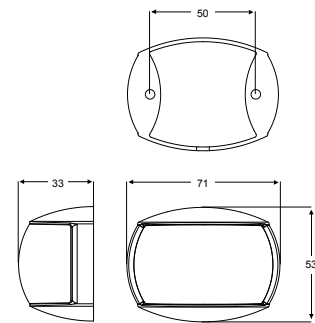
Single Lamps (with 120mm of single core marine cable)

Coloured outer lens

2 Nautical Mile Powerboat and Yacht lamps

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 98**0 520**-001	2LT 98**0 520**-011
Starboard	2 NM	2LT 98**0 520**-201	2LT 98**0 520**-211
Towing	2 NM	2LT 98**0 520**-601	2LT 98**0 520**-611

Clear outer lens

2 Nautical Mile Powerboat and Yacht lamps

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 98**0 520**-101	2LT 98**0 520**-111
Starboard	2 NM	2LT 98**0 520**-301	2LT 98**0 520**-311
Stern	2 NM	2LT 98**0 520**-501	2LT 98**0 520**-511

Single Lamps (with 2.5m of twin core marine cable)

Coloured outer lens

2 Nautical Mile Powerboat and Yacht lamps

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 98**0 520**-031	2LT 98**0 520**-041
Starboard	2 NM	2LT 98**0 520**-231	2LT 98**0 520**-241

Clear outer lens

2 Nautical Mile Powerboat and Yacht lamps

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 98**0 520**-131	2LT 98**0 520**-161
Starboard	2 NM	2LT 98**0 520**-331	2LT 98**0 520**-361
Stern	2 NM	2LT 98**0 520**-531	2LT 98**0 520**-541

Twin Pack Lamps- Port and Starboard (with 120mm of single core marine cable)

Coloured outer lens

2 Nautical Mile Powerboat and Yacht lamps

Lamp Type	Visibility	Black Shroud	White Shroud
Port & Starboard	2 NM	2LT 98**0 520**-801	2LT 98**0 520**-811

Clear outer lens

2 Nautical Mile Powerboat and Yacht lamps

Lamp Type	Visibility	Black Shroud	White Shroud
Port & Starboard	2 NM	2LT 98**0 520**-901	2LT 98**0 520**-911

... the future of marine lighting

NaviLED®360 lamps feature single LED efficiency, advanced Multivolt™ electronics and precision engineered optics for reliable and highly visible all round lighting.

NAVILED®360

- *Ultra low power consumption*
- *Ultra long service life*
- *No Bulbs*
- *No Maintenance*
- *Multivolt™*
- *Safe and highly visible*
- *Fully sealed for life*
- *UV and Corrosion resistant*
- *Shock and Vibration resistant*
- *Pre-wired*
- *Fit and Forget*

NaviLED®360 lamps draw a fraction of the energy required to run a conventional 2 nautical mile bulb lamp. Hella marine LED technology has no filaments to break thus making the lamps extremely shock, vibration and impact resistant. They are completely maintenance free. High impact acrylic housings provide superior durability in demanding conditions.

NaviLED®360 anchor lamps have undergone extensive 'tested to destruction' programs to help lift product reliability to a new standard. Each lamp is a completely sealed and waterproof unit, UV and corrosion resistant.

Utilizing advanced Multivolt™ circuitry, NaviLED®360 lamps provide consistent illumination and safety from 9-33V DC, even under severe voltage fluctuations and low battery voltages.
Sealed within the base or aluminium pole, the compact Multivolt™ drive circuitry provides reverse polarity, spike and over-voltage protection for long life and reliable operation.

NaviLED®360 lamps meet the requirements of BSH, IMO COLREG 72, USCG, ABYC A-16 and RINA.

Available in a range of mounting bases and pole lengths, NaviLED®360 lamps are the answer for safe, highly durable and ultra energy efficient all round white lighting on commercial and recreational vessels.

LED *Multivolt*

C€

| IMO COL REG 72 | USCG |
| RINA | ABYC A-16 |
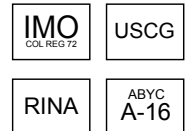
Surface mount   *Fixed base*   *Fold down base*   *Plug-in pole base*

Ultra durable and power saving single LED
White All Round / Anchor lamps.
Red and Green All Round Signal lamps.

NAVILED®360

- **2 Nautical Mile performance**
- **Less than 2W power consumption**
- **Completely sealed**
- **Shock and vibration resistant**
- **Multivolt™ 9-33V DC**

LED *Multivolt* | BSH | IMO COL REG 72 | USCG | CE

RINA | ABYC A-16

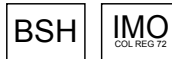|	
Housing Description	UV resistant, enhanced impact acrylic lens
	Anodized aluminium lamp base and pole
Minimum Visible Distance	2 Nautical Miles
Light Source	Single LED
Installation	Pre-wired with marine cable
Operating Voltage	Multivolt™ 9-33V DC
Voltage Protection	Spike protected to +500 volts
	Reverse polarity protected to -500 volts
Power Consumption	Less than 2W
Degree of Protection	IP 67
Approvals	BSH ⚓D.06.419 BSH/4615/6010419/06
	IMO COLREG, USCG, RINA (I), ABYC A-16
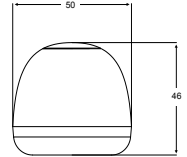
2LT 95**9 910**-011 - 204mm Fixed base

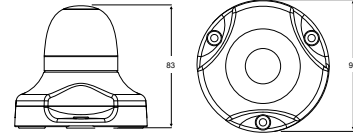**BSH Certified LED All Round Lamps** | BSH | IMO COL REG 72

LED *Multivolt*

BSH Certified

2 Nautical Mile NaviLED®360 with surface mount

Light Colour	Black Base	White Base
White	2LT 98**0 910**-101	2LT 98**0 910**-111
Red	2LT 98**0 910**-501	2LT 98**0 910**-511
Green	2LT 98**0 910**-301	2LT 98**0 910**-311

Ultra secure and compact surface mount lamps.

COLREG, USCG, RINA (I), ABYC A-16
Certified LED All Round Lamps | IMO COL REG 72 | USCG | RINA | ABYC A-16

LED *Multivolt*

2 Nautical Mile NaviLED®360 with surface mount

Light Colour	Black Base	White Base
White	2LT 98**0 910**-001	2LT 98**0 910**-011
Red	2LT 98**0 910**-401	2LT 98**0 910**-411
Green	2LT 98**0 910**-201	2LT 98**0 910**-211

Ultra secure and compact surface mount lamps.

LED *Multivolt*

White Light 2 Nautical Mile NaviLED®360 with fixed mount

Overall Length	Black Base	White Base
204 mm	2LT 95**9 910**-011	2LT 95**9 910**-111

Robust fixed mount with two counter-sunk holes.

LED *Multivolt*

White Light 2 Nautical Mile NaviLED®360 with fold down pole mount

Overall Length	Black Base	White Base
305 mm	2LT 95**9 910**-621	2LT 95**9 910**-721
500 mm	2LT 95**9 910**-661	2LT 95**9 910**-761
610 mm	2LT 95**9 910**-631	2LT 95**9 910**-731

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

LED *Multivolt*

White Light 2 Nautical Mile NaviLED®360 with plug-in pole mount

Overall Length	Black Base	White Base
610 mm	2LT 95**9 910**-431	2LT 95**9 910**-531
1070 mm	2LT 95**9 910**-451	2LT 95**9 910**-551

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

LED *Multivolt*

White Light 2 Nautical Mile NaviLED®360 with telescopic pole mount

Overall Length	Black Base	White Base
610 mm	2LT 95**9 910**-231	2LT 95**9 910**-331

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

Submersible LED Lamps

Submersible LED Trailer Lamps

Advanced Hella marine LED trailer lamps are the ultra visible, maintenance free solution for reliable and safe boat trailer lighting.

Designed and manufactured in New Zealand, Hella LED trailer lamps are completely sealed and maintenance free. They are also shock, vibration, UV and corrosion resistant and represent true 'fit and forget' technology.

Towing safety and trailer visibility is greatly enhanced. Hella marine LED trailer lamps incorporate an Ultra Wide Visibility Optic, significantly improving side visibility. Hella's use of ultra wide visibility optics far exceeds the minimum ECE/ADR requirements and provides following vehicles with higher light intensity and vehicle recognition, especially as vehicles turn on curves and corners.

Multivolt™ electronics reduce the effect of voltage drop, ensuring ongoing safety. This means Hella LED lamps perform at full brightness across a range of voltages from 8-28V DC, unaffected by voltage drop that can dull bulb lamps due to long cable runs, joins, terminals and plugs in a trailer's wiring.

LED Submersible Rear Combination Lamp

2SD 95**9 050**-501

Description	Rear Position / Stop / Indicator Lamp with Ultra Wide Visibility Optic
Mounting	Designed to be mounted horizontally Surface mount with mounting bushes
Operating Voltage	Multivolt™ 8-28V DC
Power Consumption	Rear position 1W, Indicator 5W, Stop 5W
Voltage Protection	Spike and Reverse Polarity
Degree of Protection	IP 6K6 6K7
Cable	Pre-wired with 6m of cable
Approvals	ECE compliant
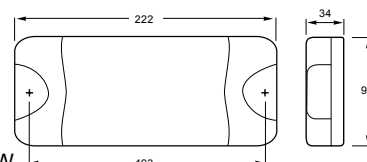
LED Number Plate Lamp

2KA 95**9 640**-601

Voltage	LED Multivolt™ (10-33V DC)
Cable	Pre-wired with 2.5m of cable
Approvals	ECE compliant
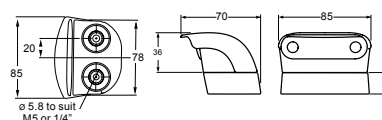
LED Trailer Lighting Pack

2VB 95**9 050**-801

Includes -
2 x 2SD 95**9 050**-501 Submersible LED Combination Lamps
2 x 2KA 95**9 640**-601 LED Number Plate Lamps
2 x 8RA 00**2 020**-001 Red Reflectors
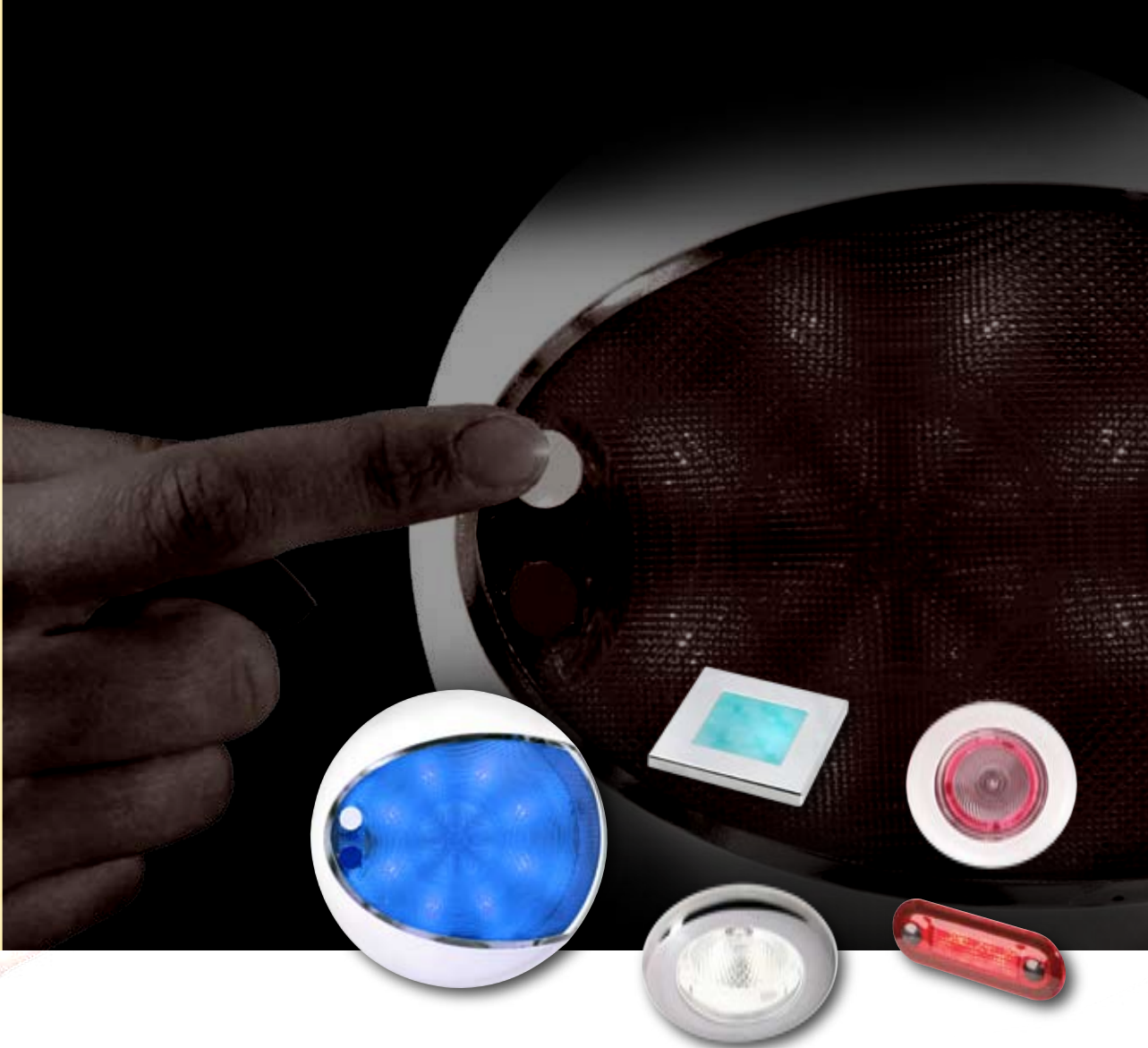
LED Interior Lamps

Hella marine HELLA®

Vision and Innovation
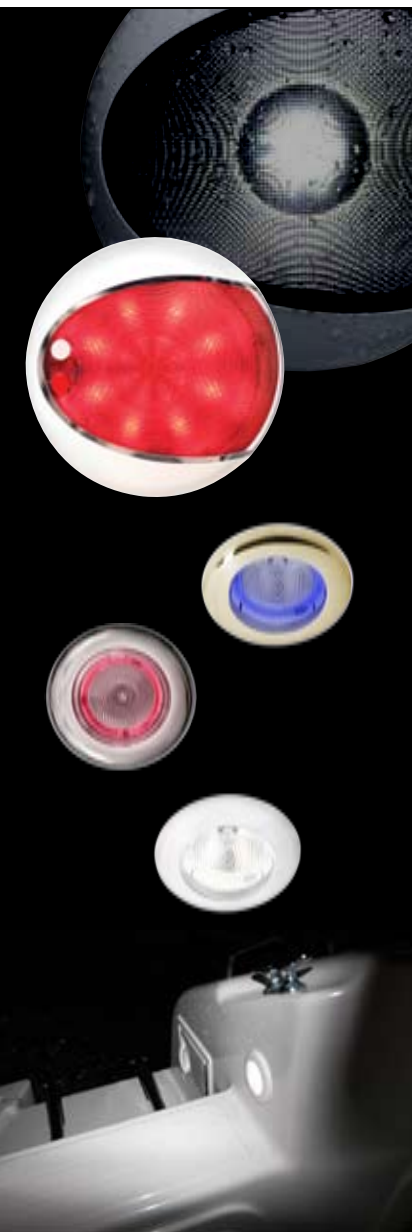
Hella marine advantages

Hella marine LED (Light Emitting Diode) interior, exterior and courtesy lamps provide power saving, highly visible and ultra durable lighting for reliability and safety at sea.

Benefits of LED lighting technology;

Ultra Low Power Consumption.
Combining efficient LED light sources with advanced optic technology,
Hella marine LED products deliver more light output per watt than traditional bulb lamps and thus provide considerable power saving.
As an example, Hella marine EuroLED white LED interior lamps consume 30% of the energy required to operate a traditional 10W interior lamp. Hella marine LED round courtesy lamps draw less than 0.5W each.

No bulbs, No maintenance. Ultra long service life.
Hella marine LED technology has no filaments to break, thus making the LED lamps extremely shock and vibration resistant for reliable illumination and safety.
Our engineering team has developed a unique range of highly demanding tests to lift product reliability to new standards.

Safe and highly visible.
Hella marine LED interior and courtesy lamps deliver powerful efficient light in smooth and uniform light patterns, designed not to cause glare or discomfort.
Glare elimination without performance loss is important with any LED lamp to maintain efficiency and safety. Powerful LED point light sources without optics can cause significant eye strain on prolonged exposure.

Fully sealed for life.
Each Hella marine LED lamp is a completely sealed electronic device. Proven design, precision engineering, and the use of high impact acrylic materials ensures superior resistance to water, impact, UV and general wear and tear.

Pre-wired with marine cable.
Hella marine LED lamps are pre-wired with quality marine specification tinned cable. The cable is completely sealed to the lamp body providing time saving on installation and reliable electrical connection.

LED
Multivolt

Multivolt™ technology for durability and safety.
Advanced Multivolt™ circuitry provides a uniform level of intensity for reliable and safe illumination across a range of DC inputs such as 8-28 volts or 9-33 volts.
Multivolt™ LED lamps can be connected to 12 or 24 volt systems without modification, providing full light performance and automatic compensation for low battery voltages and voltage drop over long cables and connections.
Hella marine Multivolt™ LED lamps are also reverse polarity and spike protected for enhanced durability even under severe voltage fluctuations.

Electromagnetic Compatibility (EMC)
All Hella marine LED products are electronic devices. Their electrical circuits contain components that suppress possible interference, both emission as well as susceptibility to immissions, to the limits prescribed in international standards.

LED Lighting Technology

Hella marine LED based lighting products are sophisticated opto-electronic devices designed for durable, highly energy efficient, maintenance free operation. Listed below are some key considerations when selecting LED based lamps for marine exterior and interior applications.

Lens and Optic Technology.
LED based marine general interior lighting is developing fast to become a viable solution for durable and highly energy efficient lighting. To take advantage of the ever increasing efficacy of the most advanced LEDs becoming available, highly efficient optic design is essential.

The goal for general LED interior lighting is the even illumination of a specified area or to highlight and illuminate features of a vessel.

All Hella marine LED lamps use integrated highly efficient optics, lens designs or Free-Form reflector technology to accurately capture and distribute the light available from the LED. Examples include:

- Oblong LED step lamps with 30 degree down angle light beam to illuminate the tread of steps and stairs onboard without dazzle from the lamps themselves. (page 35)

- Round and Square LED courtesy lamps providing attractive uniform light patterns via an efficient optic and lens with embedded glass spheres for minimum light losses. (pages 30-33)

- EuroLED lamps employ an accurately machined optic and lens combination to provide an even spread of bright white light with minimum light losses. (pages 24, 26, 27)

- LED spot lamps use an innovative reflector to create a powerful interior spot light pattern without causing glare. (pages 28-29)

Optics and Eye Safety.
With the significant advances of LED brightness, eye safety considerations are increasingly important. It is essential for high power LEDs to be coupled with optic designs that protect the eye's retina from possible damage.

It is desirable for the entire lens area of a lamp to be evenly illuminated via an efficient optic rather than using a bundle of LEDs without any optic.

Heat and thermal management.
Competent and well engineered thermal management of a LED device is essential for the long-term durability of Hella marine LED lamps. Well designed LED interior lamps save power and reduce the heat loading in a cabin compared to incandescent lighting.

A common misunderstanding is that LED's do not generate heat. In contrast to incandescent lamps however LED's like to 'run cold'.

High output LED's do generate heat, which needs to be coupled to surfaces designed to efficiently transport the heat away from the LED itself. LEDs that overheat, meaning the junction temperature of the LED rises above a set threshold, will permanently degrade and significantly reduce their luminous efficacy.

A noticeably 'hot to touch' exterior surface of a high output LED interior lamp provides some indication that the light output of the device will deteriorate within a few hundred hours. Well engineered LED devices will operate 'cool' or 'slightly warm' to the touch after many hours of operation.

The technical expertise of Hella marine in thermal management, coupled with superior optics and electronic design, ensures the long term durability of all our LED lighting products with minimal degradation over many years of service.

Colour Temperature.
When selecting LED interior lighting, selecting the right colour temperature* and a high *Colour Rendering Index (CRI) is important.

*Colour temperature - The description used to describe the effect of heating an object until it glows incandescently, the emitted radiation, and apparent color, changes proportional to the temperature; easily envisioned when considering hot metal in a forge that glows red, then orange, and then white as the temperature increases.

| 1800K | 4000K | 5500K | 8000K | 12000K | 16000K |
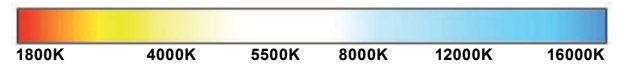
Cool White - A description of light with a correlated colour temperature between 4500 Kelvin (K) and 10000 K, usually perceived a slightly blue. *Warm White*, closer to incandescent lamps, starts at 3500 K and lower.

*CRI or Colour Rendering Index - The calculated rendered colour of an object. The higher the CRI (based upon a 0-100 scale), the more natural the colours appear. Natural outdoor light has a CRI of 100. Common lighting sources have a large range of CRI.

Both Colour temperature and a high CRI are an important selection criteria when considering the installation of LED interior lamps for general lighting.

During the LED production process the exact colour temperature and the brightness of the finished product cannot be pre-determined with certainty. For this reason LEDs are selected after the manufacturing process into various brightness and colour temperature classes.

To achieve uniformity of our products, Hella marine uses only selected colour and brightness classes. In contrast the colour temperature and the CRI of an incandescent bulb or Quartz Halogen bulb is very uniform.

Hella marine describes warm white as a colour temperature closer to the output of a Halogen Bulb lamp. White describes a colour temperature in the bright white range, up to 5200 K.

Light in the 5200 K plus range may not enhance a vessels interior, compared to the warm white (yellow) tones of an incandescent lamp as colour temperatures above 5200 K can look 'cold' and 'clinical'.

Bright white colour temperatures reduce the visible colour of food, upholstery, carpets, timber, and also skin tones making skin appear pale and grey. Colour temperatures towards the 'warm white' range of 2800 K add life and vibrancy to people and objects.

Colour temperature examples;

1850 K	Candle
2800 K	Halogen G4 Bulb (Incandescent lamp)
3000 K	Hella marine Warm White LED courtesy lamp
5200 K	Hella marine White EuroLED lamp
5400 K	Hella marine White LED courtesy lamp
6500 K	Daylight

DuraLed® Lamps

DuraLed®

LED
Multivolt

CE

**Ultra durable and ultra powerful white LED lighting
for interior / exterior applications.**

**Hella marine DuraLed® interior lamps offer ultra durable lighting for heavy duty
interior and exterior applications including storage lockers, tender lighting and
wet areas.
Completely sealed and highly resistant to vibration, saltwater and impact,
DuraLed® LED lamps provide impressive light output and energy efficiency.**

Multivolt™ technology provides consistent illumination and circuit protection from
9-33V DC, even under severe voltage fluctuations.

DuraLed® lamp reliability is second to none. Each lamp is completely waterproof,
impact resistant and shock resistant, ensuring an ultra long service life.

Two powerful options are available. Diffusion lens lamps have a wide spread of light
white the clear lens lamps have a more concentrated light pattern.

DuraLed® interior lamps are the answer for completely sealed, ultra reli
efficient lighting on powerboats and yachts.
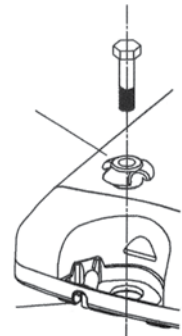
Completely sealed
unit with robust
mounting system

Housing Description	UV resistant, enhanced impact acrylic
Light Source	LED
Installation	Pre-wired with 2.5m of marine cable
Operating Voltage	Multivolt™ 9-33V DC
Protection	Reverse Polarity, Spike Protected
Degree of Protection	Completely sealed
Mounting	Surface mount
Power Consumption	Less than 9W

177   30
148   100
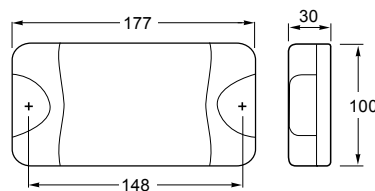
LED
Multivolt   **DuraLed® Lamp - Diffusion Lens - Wide Spread**

2JA 95**9 037**-521

... the future of marine lighting

Power saving and durable chart table and general purpose interior lamps featuring Hella marine LED technology.

LED *Multivolt*

CE

Hella marine LED lamps offer durable energy efficient lighting for a variety of interior applications including chart table and navigation area lighting, berth lighting and adjustable reading lights.

With a current draw of less than 2W (less than 0.16A @ 12V), these flexible LED lamps have an impressive white or red light output and are highly energy efficient. An ON/OFF switch is built into the head for easy operation.
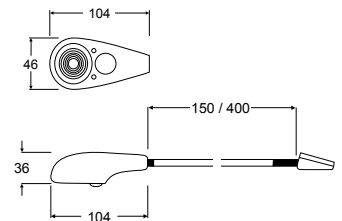
Hella marine Multivolt™ electronics provide consistent illumination and circuit protection across a range of inputs from 9-31V DC.

Highly shock and vibration resistant, the lamps provide outstanding reliability. There are no filaments to break and the surface is cool and safe to the touch.

Available in in Red or White LED light with shaft lengths of 150mm or 400mm.

- **Ultra low power consumption**

- **Ultra long service life**

- **No Bulbs**

- **No Maintenance**

- **Multivolt™**

- **Shock and Vibration resistant**

- **Pre-wired**

- **Fit and Forget**

Housing Description	UV and impact resistant plastic
	Steel arm
Light Source	Single LED
Installation	Pre-wired with 120mm of cable
Operating Voltage	Multivolt™ 9-31V DC
Power Consumption	Less than 2W
Degree of Protection	IP 53
Mounting	Surface mount

LED *Multivolt*

Flexible LED Interior Lamps with White Light		
Shaft Length	**Black Cover**	**White Cover**
150 mm	2JA 34**3 720**-022	2JA 34**3 720**-012
400 mm	2JA 34**3 720**-122	2JA 34**3 720**-112

LED *Multivolt*

Flexible LED Interior Lamps with Red Light		
Shaft Length	**Black Cover**	**White Cover**
150 mm	2JA 34**3 720**-052	2JA 34**3 720**-042
400 mm	2JA 34**3 720**-152	2JA 34**3 720**-142

EuroLED

Power saving, completely sealed LED Lamps

LED *Multivolt*

EuroLED interior lamps combine the power saving benefits of single LED technology with precision optics. This multi-purpose LED lamp provides impressive light output and energy efficiency.

With a current draw of less than 4W (less than 0.33A @ 12V), EuroLED interior lamps save power onboard. They consume 40% of the energy required to operate a 10W incandescent interior lamp. Multivolt™ technology provides consistent illumination and circuit protection from 9-33V DC, even under severe voltage fluctuations.
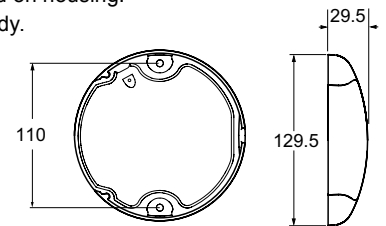
The durability of EuroLED interior lamps is second to none. Each lamp is completely waterproof, impact resistant and shock resistant, ensuring an ultra long service life.

EuroLED interior lamps are the answer for completely sealed, ultra reliable and energy efficient lighting on powerboats and yachts.

- Completely sealed housing and cable entry.
- Pre-wired with 2.5m of marine cable.
- Mounting bosses eliminate torque load on housing.
- Heavy duty shroud clips over lamp body.

29.5
110
129.5

Housing Description	UV resistant, enhanced impact acrylic
Light Source	Single LED
Installation	Pre-wired with 2.5m of marine cable
Operating Voltage	Multivolt™ 9-33V DC
Protection	Reverse Polarity, Spike Protected
Degree of Protection	IP 6K6 6K7
Mounting	Surface mount
Power Consumption	Less than 4W

LED *Multivolt*

White light EuroLED Interior Lamps

White Shroud	Black Shroud
2JA 95**9 820**-521	2JA 95**9 820**-511

EuroLED Spacer Ring Accessories

Eliminates the need for cable hole behind lamp.

8HG 95**9 952**-002   Black Spacer Ring
8HG 95**9 952**-012   White Spacer Ring

LED *Multivolt*

Warm White light EuroLED Interior Lamps

White Shroud	Black Shroud
2JA 95**9 820**-321	2JA 95**9 820**-301

Easy Fit LED Courtesy Lamps

Ultra compact, power saving and attractive LED lamps for a wide variety of interior and exterior lighting applications.

Light is radiated downward at an angle of 30° making these lamps ideal for illuminating onboard areas such as steps, stairs, toe kicks, storage areas, companion ways, deck fittings, signs and switches.

Available in Blue, White, Red and Amber light colours with white, black, satin chrome, chrome and gold plated covers.
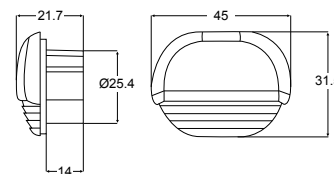
Multivolt™ electronics ensure constant light output in 12V or 24V DC systems. Like all Hella marine LED products, Easy Fit lamps are completely sealed, shock and vibration resistant and represent reliable 'fit and forget' technology.

LED *Multivolt*

CE

Mounting without screws

Mounting with screws

Housing Description	UV and impact resistant acrylic
Light Source	LED
Installation	Pre-wired with 100mm of marine cable
Operating Voltage	Multivolt™ 12-24V DC
Power Consumption	0.5W
Degree of Protection	Completely sealed
Mounting	Single hole
	Foam gasket included

Note - Lamp covers cannot be removed easily once clipped into place.

LED *Multivolt* CLEAR LENS **Blue** 12V / 24V DC

Satin chrome cap	2JA 998 560-101
Chrome cap	2JA 998 560-041
White cap	2JA 998 560-051
Black cap	2JA 998 560-151
Gold plated cap	2JA 998 560-091

LED *Multivolt* CLEAR LENS **Amber** 12V / 24V DC

Satin chrome cap	2JA 998 560-341
Chrome cap	2JA 998 560-301
White cap	2JA 998 560-311
Black cap	2JA 998 560-321
Gold plated cap	2JA 998 560-331

LED *Multivolt* CLEAR LENS **White** 12V / 24V DC

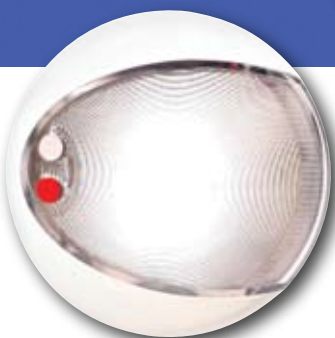|	
Satin chrome cap	2JA 998 560-121
Chrome cap	2JA 998 560-001
White cap	2JA 998 560-011
Black cap	2JA 998 560-111
Gold plated cap	2JA 998 560-081

LED *Multivolt* CLEAR LENS **Red** 12V / 24V DC

Satin chrome cap	2JA 998 560-241
Chrome cap	2JA 998 560-201
White cap	2JA 998 560-211
Black cap	2JA 998 560-221
Gold plated cap	2JA 998 560-231

*Euro**LED***
TOUCH

**Advanced LED lamps with touch sensitive switching.
Power saving and ultra durable.**

EuroLED Touch lamps provide red and white, blue and white or white only light using the latest completely sealed touch sensitive switching technology.

LED
Multivolt

C€

Lighting control is beautifully simple with EuroLED Touch lamps. Touch the colour pad for red or blue light, the white pad for white light. On the dual colour versions, hold your finger on the pad for more than two seconds and the lamp will cycle through four dimming levels. Release your finger on the light level required.

Dual colour EuroLED Touch lamps can also be remotely operated from multiple points with 'off the shelf' ON/OFF/ON momentary switches. Holding one of the external switches for two seconds will synchronise the lamps to the same dimming level.

Light levels are 'remembered' by the lamps circuitry, even when a vessel's batteries are turned off. The lamp will always turn on at the colour intensity previously set, regardless of power interruption.
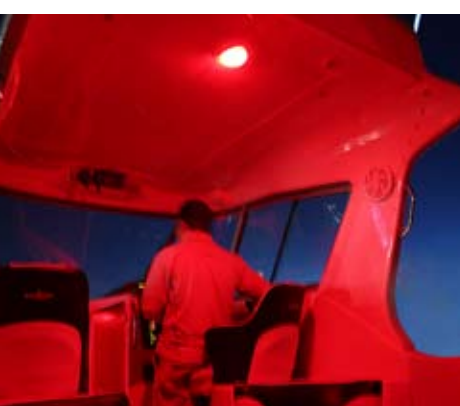
EuroLED Touch current draw is 4W on white (0.33A @ 12V) and less than 1.5W on red or blue (less than 0.125A @ 12V) to provide significant power savings.

Glare diffusion without light loss is important with any LED lamp to maintain efficiency and safety, particularly with powerful lamps such as the EuroLED series. Without the protection of advanced optics, significant eye strain can result from periods of looking directly into a powerful LED point source. Advanced Hella marine lens technology provides a safe, smooth and uniform light pattern, without glare or discomfort.

The durability of EuroLED Touch lamps is outstanding. Each lamp is completely waterproof, impact and shock resistant, for an ultra long service life. Multivolt™ circuitry provides consistent illumination across a range of input voltages from 9-33 DC, even under severe voltage fluctuations.

EuroLED Touch lamps overcome the poor reliability and light output problems of incandescent lamps. They provide ultra reliable, power saving lighting for all types of commercial and recreational applications.

*Night Vision
- Why red light does not affect our night vision.*

The human eye contains two types of receptors, the rods and the cones. Rods and cones have an increased sensitivity to frequency bands at different ends of the visual spectrum.
Rods are largely responsible for our day time and colour vision and have an increased sensitivity towards the red band of the visual spectrum. Cones are responsible for our night vision capability and have an increased sensitivity towards the blue, shorter wavelength band of the visual spectrum. For this reason red light will not affect the sensitivity of the cones and with that our night vision is not affected by the use of red light in the cabin.

EuroLED TOUCH
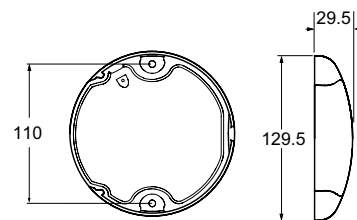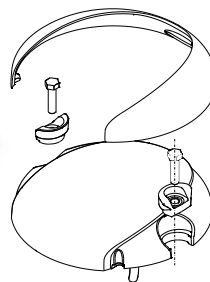
29.5
110
129.5

- Completely sealed housing and cable entry.
- Pre-wired with 2.5m of marine cable.
- Mounting bosses eliminate torque load on housing.
- Heavy duty shroud clips over lamp body.

LED *Multivolt*

CE

EuroLED Spacer Ring Accessories

Eliminates the need for cable hole behind lamp.

8HG 95**9 952**-002   Black Spacer Ring
8HG 95**9 952**-012   White Spacer Ring

Housing Description	UV resistant, enhanced impact acrylic
Light Source	White - Single LED, Red and Blue - Multiple LEDs
Installation	Pre-wired with 2.5m of marine cable
Operating Voltage	Multivolt™ 9-33V DC
Protection	Reverse Polarity, Spike Protected
Protective System	IP 6K6 6K7
Mounting	Surface mount
Power Consumption	White - 4W, Red and Blue - Less than 1.5W

LED *Multivolt*

Dual colour EuroLED Touch lamps with dimming and remote momentary switch control.
Touch the colour pad for ON/OFF, hold finger on the pad to cycle through dimming levels.

White / Red light EuroLED Touch Lamp

White Shroud	Black Shroud
2JA 95**9 950**-121	2JA 95**9 950**-111

LED *Multivolt*

Dual colour EuroLED Touch lamps with dimming and remote momentary switch control.
Touch the colour pad for ON/OFF, hold finger on the pad to cycle through dimming levels.

White / Blue light EuroLED Touch Lamp

White Shroud	Black Shroud
2JA 95**9 951**-121	2JA 95**9 951**-111

LED *Multivolt*

Single White EuroLED Touch lamps without dimming or momentary switch control.
Touch the white pad for ON, touch the black pad for OFF.

Single White light EuroLED Touch Lamp

White Shroud	Black Shroud
2JA 95**9 950**-521	2JA 95**9 950**-511

LED Spot Lamps

Power saving, high output white LED spot lamps featuring an innovative ring of ambient LED light.

- *Ultra low power consumption*
- *Ultra long service life*
- *Cool operating temperature*
- *No Bulbs*
- *No Maintenance*
- *Multivolt™*
- *Shock and Vibration resistant*
- *Pre-wired*
- *Fit and Forget*

Excessive heat and high power consumption problems associated with halogen down lights can now be overcome with Hella marine high output LED spot lamps.

LED *Multivolt*   C E

Hella marine high output LED spot lamps generate over 450 candela. This is more peak and overall output (at a narrower angle) than light from a Hella marine down light running a 12V 10W G4 halogen bulb.

Consumption is less than 2.5W (less than 0.18A @ 12V), providing more than 75% power saving compared to a 10W halogen lamp.

Unique 'non glare' reflector technology provides powerful light without discomfort to the eyes. Each lamp also features an outer ring of red, white or blue LED light providing additional ambient illumination. The ambient function consumes less than 0.5W and is switched independently.

Hella marine Multivolt™ electronics provide consistent illumination and circuit protection across a range of inputs from 9-31V DC.

Completely sealed, shock and vibration resistant, Hella marine LED lamps provide outstanding reliability as there are no filaments to break. The surface is cool to the touch so will not cause damage to surrounding materials.
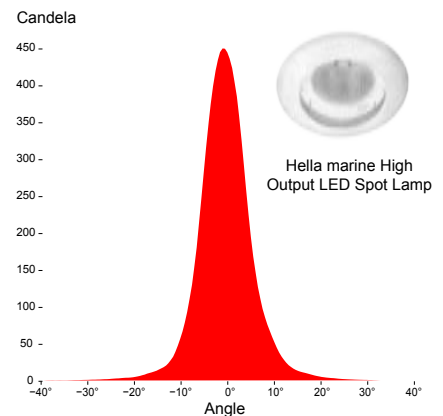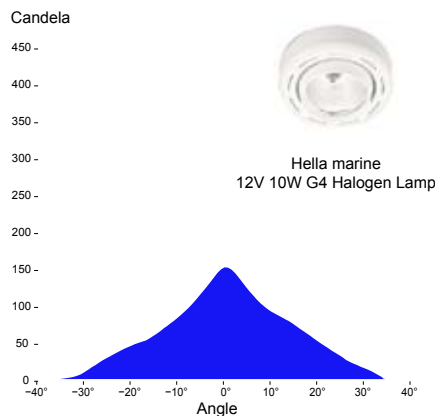
Bezels are available in polished or satin 316 stainless steel, gold plated stainless steel, and black or white high gloss plastic.

Hella marine high output LED spot lamps are the answer for power saving and cool running interior lighting on powerboats and yachts.

Hella marine 10W Halogen Lamp vs Hella marine High Output LED Spot Lamp

Candela — Hella marine 12V 10W G4 Halogen Lamp

Hella marine 12V 10W G4 Halogen Lamp
Peak = 150 Candela
Wide Spread.

Candela — Hella marine High Output LED Spot Lamp

Hella marine High Output LED Spot Lamp
Peak = 450 Candela
Narrow Spread.

LED Spot Lamps

LED *Multivolt*

C E

Durable and power saving LED spot Lamps.

- **Unique 'non glare' reflector design**
- **Less than 2.5W power consumption**
- **Over 450 Candela peak output**
- **Cool operating temperature**
- **Innovative ambient light ring**
- **Completely sealed**
- **Shock and vibration resistant**
- **Multivolt™ 9-31V DC**

Rear of lamp
- Sealed housing and cable entry.
- Pre-wired with 200mm of cable.

Lamp
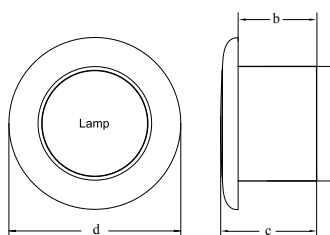
a = 50mm
b = 34mm
c = 41mm
d = 75mm plastic rims
      72mm stainless steel rims

Housing Description	UV and impact resistant plastic
Light Source	Single LED
Installation	Pre-wired with 200mm of cable
Operating Voltage	Multivolt™ 9-31V DC
Power Consumption	White Spot Light < 2.5W
	Ambient Light Ring < 0.5W
Degree of Protection	IP 6K 9K
Mounting	Recess mount 50mm dia. hole.

LED *Multivolt* | **White LED Spot light with Blue ambient ring**

Satin stainless steel rim	2JA 34**3 980**-162
Polished stainless steel rim	2JA 34**3 980**-152
Gold plated stainless steel rim	2JA 34**3 980**-142
White plastic rim	2JA 34**3 980**-102
Black plastic rim	2JA 34**3 980**-112

Blue Ambient Ring   White Spot

LED *Multivolt* | **White LED Spot light with Red ambient ring**

Satin stainless steel rim	2JA 34**3 980**-062
Polished stainless steel rim	2JA 34**3 980**-052
Gold plated stainless steel rim	2JA 34**3 980**-042
White plastic rim	2JA 34**3 980**-002
Black plastic rim	2JA 34**3 980**-012

Red Ambient Ring   White Spot

LED *Multivolt* | **White LED Spot light with White ambient ring**

Satin stainless steel rim	2JA 34**3 980**-262
Polished stainless steel rim	2JA 34**3 980**-252
Gold plated stainless steel rim	2JA 34**3 980**-242
White plastic rim	2JA 34**3 980**-202
Black plastic rim	2JA 34**3 980**-212

White Ambient Ring   White Spot

Slim Line
Round LED Courtesy Lamps

- **Ultra low power consumption**
- **Ultra long service life**
- **Completely sealed**
- **Smooth and even light patterns**
- **Shock and vibration resistant**

Attractive, energy efficient lighting for interior and exterior use.

9 exciting colours with an installation depth of only 13mm and an advanced Hella lens for an even spread of soft light without glare or eye strain. Rims are available in polished or satin 316 stainless steel, gold plated stainless steel, black or white plastic.

Hella marine LED lamps consume a fraction of the energy of traditional bulb lamps and run very cool due to their low current draw. This provides safer installation into light weight materials where the heat of traditional lamps may cause damage to the surrounding structure.

Enhanced brightness versions are available in White and Warm White. These are three times brighter than regular Hella marine soft White and Warm White round LED lamps.

Hella marine LED technology has no filaments to break making the lamps extremely shock, impact and vibration resistant and completely maintenance free for an ultra long service life.

Each lamp is a completely sealed and waterproof unit, UV and corrosion resistant, perfectly suited for the demanding marine environment. Hella marine LED courtesy lamps represent energy efficient, maintenance free 'fit and forget' technology.

White enhanced brightness lamps with 316 stainless steel and gold plated 316 stainless steel rims.

- Completely sealed housing and cable entry.
- 50mm dia. installation hole when recess mounting.
- Pre-wired with 120mm of marine cable.

Material Description	UV and impact resistant plastic
Light Source	4 LED´s
Installation	Pre-wired with 120mm of marine cable
Operating Voltage	12V or 24V DC
Degree of Protection	IP 67
Mounting	Recess or surface mount
	Stainless steel screws included
Power Consumption	0.5W

Enhanced Brightness*

CLEAR LENS WHITE LIGHT	12V DC	24V DC
Satin stainless steel rim	2XT 98**0 500**-591	2XT 98**0 501**-591
Polished stainless steel rim	2XT 98**0 500**-521	2XT 98**0 501**-521
Gold plated stainless steel rim	2XT 98**0 500**-531	2XT 98**0 501**-531
White plastic rim	2XT 98**0 500**-541	2XT 98**0 501**-541
Black plastic rim	2XT 98**0 500**-551	2XT 98**0 501**-551

Enhanced Brightness*

CLEAR LENS WARM WHITE	12V DC	24V DC
Satin stainless steel rim	2XT 98**0 500**-791	2XT 98**0 501**-791
Polished stainless steel rim	2XT 98**0 500**-721	2XT 98**0 501**-721
Gold plated stainless steel rim	2XT 98**0 500**-731	2XT 98**0 501**-731
White plastic rim	2XT 98**0 500**-741	2XT 98**0 501**-741
Black plastic rim	2XT 98**0 500**-751	2XT 98**0 501**-751

*Enhanced brightness lamps include a surface mounting ring with 3 x stainless steel screws. Stainless steel and white rim lamps include a white spacer, black lamps a black spacer.

a = 50mm
b = 13mm
c = 21mm
d = 75mm plastic rims
     72mm stainless steel rims
e = 75mm
f = 15mm

Surface Mounting Accessories

8HG 95**9 993**-102   Black Spacer Ring
8HG 95**9 993**-112   White Spacer Ring
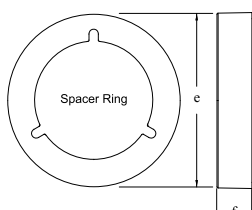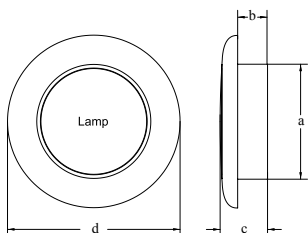
Hella marine HELLA

Slim Line Round Courtesy Lamps

CLEAR LENS	WHITE	12V DC	24V DC
	Satin stainless steel rim	2XT 980 500-091	2XT 980 501-091
	Polished stainless steel rim	2XT 980 500-021	2XT 980 501-021
	Gold plated stainless steel rim	2XT 980 500-031	2XT 980 501-031
	White plastic rim	2XT 980 500-041	2XT 980 501-041
	Black plastic rim	2XT 980 500-051	2XT 980 501-051

CLEAR LENS	WARM WHITE	12V DC	24V DC
	Satin stainless steel rim	2XT 980 500-291	2XT 980 501-291
	Polished stainless steel rim	2XT 980 500-221	2XT 980 501-221
	Gold plated stainless steel rim	2XT 980 500-231	2XT 980 501-231
	White plastic rim	2XT 980 500-241	2XT 980 501-241
	Black plastic rim	2XT 980 500-251	2XT 980 501-251

CLEAR LENS	GREEN	12V DC	24V DC
	Satin stainless steel rim	2XT 980 502-091	2XT 980 503-091
	Polished stainless steel rim	2XT 980 502-021	2XT 980 503-021
	Gold plated stainless steel rim	2XT 980 502-031	2XT 980 503-031
	White plastic rim	2XT 980 502-041	2XT 980 503-041
	Black plastic rim	2XT 980 502-051	2XT 980 503-051

CLEAR LENS	BLUE	12V DC	24V DC
	Satin stainless steel rim	2XT 980 502-291	2XT 980 503-291
	Polished stainless steel rim	2XT 980 502-221	2XT 980 503-221
	Gold plated stainless steel rim	2XT 980 502-231	2XT 980 503-231
	White plastic rim	2XT 980 502-241	2XT 980 503-241
	Black plastic rim	2XT 980 502-251	2XT 980 503-251

CLEAR LENS	CYAN	12V DC	24V DC
	Satin stainless steel rim	2XT 980 502-491	2XT 980 503-491
	Polished stainless steel rim	2XT 980 502-421	2XT 980 503-421
	Gold plated stainless steel rim	2XT 980 502-431	2XT 980 503-431
	White plastic rim	2XT 980 502-441	2XT 980 503-441
	Black plastic rim	2XT 980 502-451	2XT 980 503-451

CLEAR LENS	AMBER	12V DC	24V DC
	Satin stainless steel rim	2XT 980 507-091	2XT 980 508-091
	Polished stainless steel rim	2XT 980 507-021	2XT 980 508-021
	Gold plated stainless steel rim	2XT 980 507-031	2XT 980 508-031
	White plastic rim	2XT 980 507-041	2XT 980 508-041
	Black plastic rim	2XT 980 507-051	2XT 980 508-051

CLEAR LENS	RED	12V DC	24V DC
	Satin stainless steel rim	2XT 980 507-301	2XT 980 508-291
	Polished stainless steel rim	2XT 980 507-221	2XT 980 508-221
	Gold plated stainless steel rim	2XT 980 507-231	2XT 980 508-231
	White plastic rim	2XT 980 507-241	2XT 980 508-241
	Black plastic rim	2XT 980 507-251	2XT 980 508-251

CLEAR LENS	DEEP RED	12V DC	24V DC
	Satin stainless steel rim	2XT 980 507-491	2XT 980 508-491
	Polished stainless steel rim	2XT 980 507-421	2XT 980 508-421
	Gold plated stainless steel rim	2XT 980 507-431	2XT 980 508-431
	White plastic rim	2XT 980 507-441	2XT 980 508-441
	Black plastic rim	2XT 980 507-451	2XT 980 508-451

CLEAR LENS	ORANGE	12V DC	24V DC
	Satin stainless steel rim	2XT 980 507-691	2XT 980 508-691
	Polished stainless steel rim	2XT 980 507-621	2XT 980 508-621
	Gold plated stainless steel rim	2XT 980 507-631	2XT 980 508-631
	White plastic rim	2XT 980 507-641	2XT 980 508-641
	Black plastic rim	2XT 980 507-651	2XT 980 508-651

CE

Slim Line

Square LED Courtesy Lamps

Attractive square LED courtesy lamps for a variety of modern interior and exterior installations.

Design driven with a shallow mounting depth of only 16mm, these power saving LED courtesy lamps can be installed almost anywhere on board. Advanced lens technology provides a cool and even spread of soft light without glare or eye strain.

Hella marine square courtesy lamps consume a fraction of the energy of traditional bulb lamps and run very cool due to their low current draw of less than 0.5W (less than 0.04A @ 12V). This provides safer installation into light weight materials where the heat of incandescent lamps may cause damage to the surrounding structure.

Hella marine LED technology is extremely shock, impact and vibration resistant. Each lamp is a completely sealed and waterproof unit, UV and corrosion resistant, perfectly suited for the demanding marine environment.

Enhanced brightness versions are available in White and Warm White. These are three times brighter than regular Hella marine soft White and Warm White square LED lamps.

Rims are available in gloss black or gloss white plastic, chrome or gold plated plastic or a modern satin chrome plated plastic.
Surface mounting accessory rings provide numerous installation options with surface finishes to compliment or contrast the lamp rims.

Hella marine LED lamps represent ultra reliable, energy efficient, 'fit and forget' technology.

Material Description	UV and impact resistant plastic
Light Source	4 LEDs
Installation	Pre-wired with 120mm of marine cable
Operating Voltage	12V or 24V DC
Degree of Protection	IP 67
Mounting	Recess or surface mount
	Stainless steel screws included
Power Consumption	0.5W

Enhanced Brightness*

WHITE LIGHT	12V DC	24V DC
Satin Chrome plated rim	2XT 98**0 580**-561	2XT 98**0 581**-561
Chrome plated rim	2XT 98**0 580**-571	2XT 98**0 581**-571
Gold plated rim	2XT 98**0 580**-531	2XT 98**0 581**-531
White plastic rim	2XT 98**0 580**-551	2XT 98**0 581**-551
Black plastic rim	2XT 98**0 580**-541	2XT 98**0 581**-541

CLEAR LENS

Enhanced Brightness*

WARM WHITE LIGHT	12V DC	24V DC
Satin Chrome plated rim	2XT 98**0 580**-761	2XT 98**0 581**-761
Chrome plated rim	2XT 98**0 580**-771	2XT 98**0 581**-771
Gold plated rim	2XT 98**0 580**-731	2XT 98**0 581**-731
White plastic rim	2XT 98**0 580**-751	2XT 98**0 581**-751
Black plastic rim	2XT 98**0 580**-741	2XT 98**0 581**-741

CLEAR LENS

*Each enhanced brightness lamp includes a surface mounting spacer with a matching finish and 4 x stainless steel screws.

- Completely sealed housing and cable entry.
- 50mm dia. installation hole when recess mounting.
- Pre-wired with 120mm of marine cable.

Surface Mounting Accessories

8HG 95**9 993**-512	Chrome plated spacer
8HG 95**9 993**-522	Gold plated spacer
8HG 95**9 993**-532	Satin chrome plated spacer
8HG 95**9 993**-602	Black spacer
8HG 95**9 993**-542	White spacer

Lamp

Spacer Ring

a = 60.0mm
b = 16.0mm
c = 50.0mm
d = 22.0mm
e = 17.0mm

Hella marine

Slim Line Square Courtesy Lamps

CE

CLEAR LENS	WHITE	12V DC	24V DC
	Satin chrome plated rim	2XT 98**0** 580-061	2XT 98**0** 581-061
	Chrome plated rim	2XT 98**0** 580-071	2XT 98**0** 581-071
	Gold plated rim	2XT 98**0** 580-031	2XT 98**0** 581-031
	White plastic rim	2XT 98**0** 580-051	2XT 98**0** 581-051
	Black plastic rim	2XT 98**0** 580-041	2XT 98**0** 581-041

CLEAR LENS	WARM WHITE	12V DC	24V DC
	Satin chrome plated rim	2XT 98**0** 580-261	2XT 98**0** 581-261
	Chrome plated rim	2XT 98**0** 580-271	2XT 98**0** 581-271
	Gold plated rim	2XT 98**0** 580-231	2XT 98**0** 581-231
	White plastic rim	2XT 98**0** 580-251	2XT 98**0** 581-251
	Black plastic rim	2XT 98**0** 580-241	2XT 98**0** 581-241

CLEAR LENS	GREEN	12V DC	24V DC
	Satin chrome plated rim	2XT 98**0** 582-061	2XT 98**0** 583-061
	Chrome plated rim	2XT 98**0** 582-071	2XT 98**0** 583-071
	Gold plated rim	2XT 98**0** 582-031	2XT 98**0** 583-031
	White plastic rim	2XT 98**0** 582-051	2XT 98**0** 583-051
	Black plastic rim	2XT 98**0** 582-041	2XT 98**0** 583-041

CLEAR LENS	BLUE	12V DC	24V DC
	Satin chrome plated rim	2XT 98**0** 582-261	2XT 98**0** 583-261
	Chrome plated rim	2XT 98**0** 582-271	2XT 98**0** 583-271
	Gold plated rim	2XT 98**0** 582-231	2XT 98**0** 583-231
	White plastic rim	2XT 98**0** 582-251	2XT 98**0** 583-251
	Black plastic rim	2XT 98**0** 582-241	2XT 98**0** 583-241

CLEAR LENS	CYAN	12V DC	24V DC
	Satin chrome plated rim	2XT 98**0** 582-461	2XT 98**0** 583-461
	Chrome plated rim	2XT 98**0** 582-471	2XT 98**0** 583-471
	Gold plated rim	2XT 98**0** 582-431	2XT 98**0** 583-431
	White plastic rim	2XT 98**0** 582-451	2XT 98**0** 583-451
	Black plastic rim	2XT 98**0** 582-441	2XT 98**0** 583-441

CLEAR LENS	AMBER	12V DC	24V DC
	Satin chrome plated rim	2XT 98**0** 587-061	2XT 98**0** 588-061
	Chrome plated rim	2XT 98**0** 587-071	2XT 98**0** 588-071
	Gold plated rim	2XT 98**0** 587-031	2XT 98**0** 588-031
	White plastic rim	2XT 98**0** 587-051	2XT 98**0** 588-051
	Black plastic rim	2XT 98**0** 587-041	2XT 98**0** 588-041

CLEAR LENS	RED	12V DC	24V DC
	Satin chrome plated rim	2XT 98**0** 587-261	2XT 98**0** 588-261
	Chrome plated rim	2XT 98**0** 587-271	2XT 98**0** 588-271
	Gold plated rim	2XT 98**0** 587-231	2XT 98**0** 588-231
	White plastic rim	2XT 98**0** 587-251	2XT 98**0** 588-251
	Black plastic rim	2XT 98**0** 587-241	2XT 98**0** 588-241

CLEAR LENS	DEEP RED	12V DC	24V DC
	Satin chrome plated rim	2XT 98**0** 587-461	2XT 98**0** 588-461
	Chrome plated rim	2XT 98**0** 587-471	2XT 98**0** 588-471
	Gold plated rim	2XT 98**0** 587-431	2XT 98**0** 588-431
	White plastic rim	2XT 98**0** 587-451	2XT 98**0** 588-451
	Black plastic rim	2XT 98**0** 587-441	2XT 98**0** 588-441

| CLEAR LENS	ORANGE	12V DC	24V DC
	Satin chrome plated rim	2XT 98**0** 587-661	2XT 98**0** 588-661
	Chrome plated rim	2XT 98**0** 587-671	2XT 98**0** 588-671
	Gold plated rim	2XT 98**0** 587-631	2XT 98**0** 588-631
	White plastic rim	2XT 98**0** 587-651	2XT 98**0** 588-651
	Black plastic rim	2XT 98**0** 587-641	2XT 98**0** 588-641

LED Courtesy Lighting

Stylish, compact and power saving Hella marine LED courtesy lamps for interior or exterior installations.

Completely sealed and ultra durable, Hella marine LED courtesy lamps are ideal for illuminating a variety of onboard areas such as steps, stairs, toe kicks, storage areas, companion ways, deck fittings, signs and switches.

Engineered optics ensure an even spread of light without harsh point sources. With a low current draw of less than 0.5W (less than 0.04A @ 12V) Hella marine LED courtesy lamps are highly energy efficient. Multivolt™ versions ensure consistent illumination across a range of input voltages from 10-33 DC.

Available in Narrow Rim (22mm high) and Wide Rim (28mm high) sizes. Attractive trim accessories to fit *Wide Rim lamps only* are available in polished, satin or gold plated 316 stainless steel finishes.
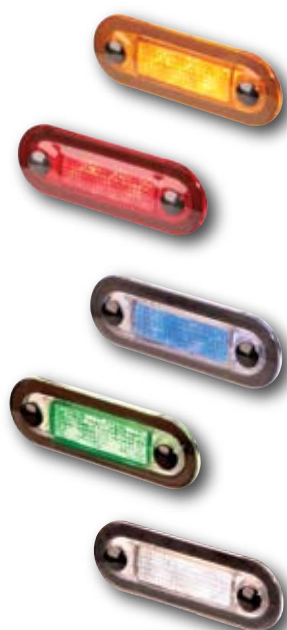
Material Description	UV and impact resistant plastic
Light Source	LED
Installation	Pre-wired with 120mm of marine cable
Operating Voltage	Red 12V DC
	Blue, Green, White, Warm White Multivolt™ 10-33V DC
Power Consumption	0.5W
Degree of Protection	Completely sealed
Mounting	Stainless steel mounting screws included
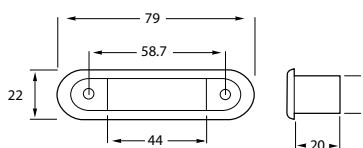
- Completely sealed housing and cable entry.
- Pre-wired with 120mm of marine cable.

Narrow Rim Rectangular

		12V DC	24V DC
AMBER LENS	Amber	2XT 959 510-011	2XT 959 510-061
CLEAR LENS	Amber	2XT 959 510-001	2XT 959 510-051
RED LENS	Red	2XT 959 510-311	2XT 959 510-331
CLEAR LENS	Red	2XT 959 510-301	2XT 959 510-351
LED Multivolt / CLEAR LENS	Blue		2XT 959 510-251 Multivolt™
LED Multivolt / CLEAR LENS	Green		2XT 959 510-151 Multivolt™
LED Multivolt / CLEAR LENS	White		2XT 959 510-451 Multivolt™
LED Multivolt / CLEAR LENS	Warm White		2XT 959 510-931 Multivolt™

Accessories to suit wide rim lamps

9AR 998 019-001
Polished 316 Stainless Steel Rim

9AR 998 019-011
Gold Plated 316 Stainless Steel Rim

9AR 959 685-061
Satin 316 Stainless Steel Rim

Wide Rim Rectangular

		12V DC	24V DC
AMBER LENS	Amber	2XT 959 510-511	2XT 959 510-561
CLEAR LENS	Amber	2XT 959 510-501	2XT 959 510-551
RED LENS	Red	2XT 959 510-711	2XT 959 510-761
CLEAR LENS	Red	2XT 959 510-701	2XT 959 510-751
LED Multivolt / CLEAR LENS	Blue		2XT 959 510-651 Multivolt™
LED Multivolt / CLEAR LENS	Green		2XT 959 510-621 Multivolt™
LED Multivolt / CLEAR LENS	White		2XT 959 510-851 Multivolt™
LED Multivolt / CLEAR LENS	Warm White		2XT 959 510-901 Multivolt™

LED Step Lighting

Dedicated LED step lamps. Stylish, compact and power saving interior or exterior lighting from Hella marine.

Completely sealed and ultra durable, Hella marine LED step lamps are proven the worldwide. Specifically engineered step lamp optics direct peak light downwards at 30 degrees to safely illuminate deck and step tread surfaces without shining into the eyes.

Hella marine LED step lamps are highly energy efficient with a current draw of less than 0.5W (less than 0.04A @ 12V). Multivolt™ electronics ensure consistent illumination across a range of input voltages and provide lamp protection for an ultra long service life.

Attractive trim accessories are available in polished, satin or gold plated 316 stainless steel finishes.

Material Description	UV and impact resistant plastic
Light Source	LED
Installation	Pre-wired with 120mm of marine cable
Operating Voltage	Red Multivolt™ 8-28V DC
	Blue, Green, White, Warm White Multivolt™ 10-33V DC
Power Consumption	0.5W
Degree of Protection	Completely sealed
Mounting	Stainless steel mounting screws included

Peak light output is directed down at 30 degrees.
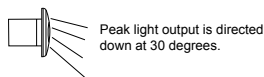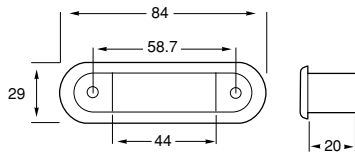
- Completely sealed housing and cable entry.
- Pre-wired with 120mm of marine cable.

LED Step lamps with 316 stainless steel rims

Red — Multivolt™ — CLEAR LENS
Polished stainless steel rim	2XT 95**9 680**-711
Gold plated stainless steel rim	2XT 95**9 680**-721
Satin stainless steel rim	2XT 95**9 680**-731

Blue — Multivolt™ — CLEAR LENS
Polished stainless steel rim	2XT 95**9 680**-611
Gold plated stainless steel rim	2XT 95**9 680**-621
Satin stainless steel rim	2XT 95**9 680**-631

Green — Multivolt™ — CLEAR LENS
Polished stainless steel rim	2XT 95**9 680**-911
Gold plated stainless steel rim	2XT 95**9 680**-921
Satin stainless steel rim	2XT 95**9 680**-931

White — Multivolt™ — CLEAR LENS
Polished stainless steel rim	2XT 95**9 680**-811
Gold plated stainless steel rim	2XT 95**9 680**-841
Satin stainless steel rim	2XT 95**9 680**-851

Warm White — Multivolt™ — CLEAR LENS
Polished stainless steel rim	2XT 95**9 680**-411
Gold plated stainless steel rim	2XT 95**9 680**-421
Satin stainless steel rim	2XT 95**9 680**-431

... the future of marine lighting

CargoLED®

Ultra durable and ultra powerful white LED lighting for 'low profile' flush mounting into a wide range of interior and exterior applications.

LED *Multivolt*

CE

Hella marine CargoLED® LED lamps offer ultra durable lighting for heavy duty interior and exterior applications including storage lockers, exposed surfaces and wet areas.

Completely sealed and highly resistant to vibration, saltwater and impact, With a current draw of only 6W, CargoLED® LED lamps provide impressive light output and energy efficiency.

Multivolt™ technology provides consistent illumination and circuit protection from 9-31V DC, even under severe voltage fluctuations.

The new lamps are built with a unique 'non-glaring' LED installation. This provides ultra efficient LED light without risking eye damage if the lamps are viewed directly.

CargoLED® lamp reliability is second to none. Each lamp is completely waterproof, impact resistant and shock resistant, ensuring an ultra long service life. The new lamps operate across a wide range of temperatures from -40 to +60 degrees.

CargoLED® LED lamps are the answer for low profile, ultra reliable and energy efficient lighting on powerboats and yachts.

- *Ultra low power consumption*
- *Ultra long service life*
- *No Bulbs*
- *No Maintenance*
- *Multivolt™*
- *Shock and Vibration resistant*
- *Pre-wired*
- *Fit and Forget*

Housing Description	UV resistant, enhanced impact acrylic lens
	Anodized aluminium lamp base
Light Source	4 LED's
Installation	Pre-wired with 300mm of twin core cable
Operating Voltage	Multivolt™ 9-31V DC
Power Consumption	6W
Degree of Protection	IP 6K 9K
Mounting	Recess mount

ø140
ø180
23.5
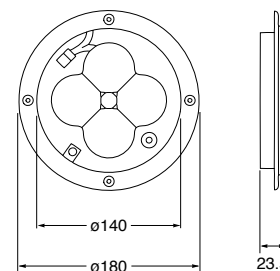
LED *Multivolt* CLEAR LENS **White Light CargoLED® Lamp**

Part Number

2JB 343 227-001

Thinlite
LED Strip Lamps

Ultra durable and powerful LED strip lighting for low profile surface mounting into a wide range of interior and exterior applications.

Hella marine Thinlite lamps offer durable lighting in a unique surface mount design suitable for interior and exterior applications including storage lockers, under cabinetry, in cockpits, under gunnels.

The entire lamp body is a shallow 10mm thick and completely sealed. Thinlite LED lamps are highly resistant to vibration, saltwater and impact, with a current draw of less than 2W.

Advanced optics are employed to provide impressive light output and energy efficiency for almost any space onboard.

C€

- *Ultra low power consumption*

- *Ultra long service life*

- *No Bulbs*

- *No Maintenance*

- *Shock and Vibration resistant*

- *Pre-wired*

- *Fit and Forget*

Housing Description	UV resistant, enhanced impact acrylic lens
Light Source	LED
Installation	Pre-wired with 600mm of twin core cable
Operating Voltage	12V or 24V DC
Power Consumption	< 2W
Degree of Protection	IP 6K 9K
Mounting	Surface mount

25.6 280 10
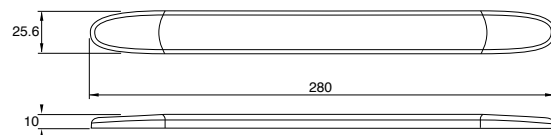
CLEAR LENS

White Light Thinlite LED Strip Lamps

Voltage	Part Number
12V	2JA 34**3 606**-002
24V	2JA 34**3 606**-012

CLEAR LENS

Blue Light Thinlite LED Strip Lamps

Voltage	Part Number
12V	2JA 34**3 606**-202
24V	2JA 34**3 606**-212

LED Strip Lamps

Hella marine flush mount LED strip lamps are suitable for a variety of exterior and interior applications including chart reading, lighting steps, and providing general ambient effects.
The LED strip lamps provide all the power saving and reliability advantages of the Hella marine LED range.

Material Description	UV and impact resistant plastic
Light Source	LED
Installation	Pre-wired with 2.5m of marine cable
Operating Voltage	12V or 24V DC
Power Consumption	2W

Wide Rim LED Strip Lamps		
	12V DC	**24V DC**
CLEAR LENS **Red**	2XD 95**9 073**-701	2XD 95**9 073**-751
CLEAR LENS **Blue**	2XD 95**9 073**-601	2XD 95**9 073**-651
CLEAR LENS **White**	2JA 95**9 073**-001	2JA 95**9 073**-201

217
29
237.5 Mounting Hole Centres
265

265
237.5
33
216.5
20
25.5
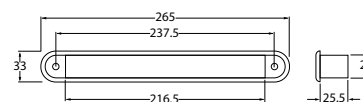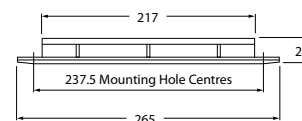
Surface Mount LED Courtesy Lamps

Stylish, compact and completely sealed surface mounted LED courtesy lamps with Multivolt™ technology for ultra low power consumption and an ultra long service life.

Material Description	UV and impact resistant plastic
Light Source	LED
Installation	Pre-wired with 500mm of marine cable
Operating Voltage	Red, Amber - Multivolt™ 8-28V DC
	Blue, White, Green - Multivolt™ 10-33V DC
Power Consumption	0.5W
Degree of Protection	Completely sealed

32
60
38
28.5
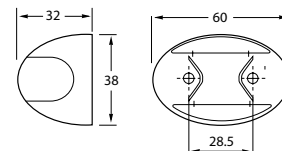
Accessory

9BG 95**9 565**-017
White mounting shrouds

LED Multivolt | **LED Surface Mount Lamps Multivolt™**

Red Light	**Amber Light**	
2XT 95**9 630**-351	2XT 95**9 630**-151	

Blue Light	**White Light**	**Green Light**
2XT 95**9 630**-251	2XT 95**9 630**-451	2XT 95**9 630**-551

Bulb Navigation Lamps

Hella marine ®

Vision and Innovation

2010 Series Position Lamps

Compact, saltwater resistant and non-magnetic navigation lamps.

| IMO COL REG 72 | USCG |
| RINA | ABYC A-16 |

CE

Housing Description	UV and impact resistant plastic housing and lens.
	Anodized aluminium poles
Minimum Visible Distance	2 Nautical Mile, (Starboard and Port Lamps 1 Nautical Mile)
Bulb	12V / 10W SV8.5 included
Installation	Pre-wired with 100mm of cable, includes stainless steel screws
Degree of Protection	IP X6
Approvals	IMO COLREG, USCG, ABYC A-16, RINA(I)

1 Nautical Mile Port Lamps

Black Housing	White Housing
2LT 99**5 005**-001	2LT 99**5 005**-021
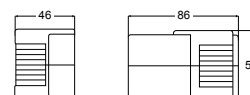
1 Nautical Mile Starboard Lamps

Black Housing	White Housing
2LT 99**5 005**-011	2LT 99**5 005**-031
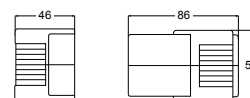
1 Nautical Mile Bi-colour Lamps

Chrome Housing
2LT 99**5 006**-001
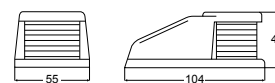
2 Nautical Mile Stern Lamps - Flush Mount

Black Housing	White Housing
2LT 99**5 004**-001	2LT 99**5 004**-011
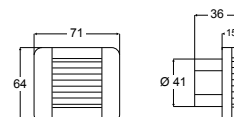
2 Nautical Mile Masthead Lamps

Black Housing	White Housing
2LT 99**5 001**-001	2LT 99**5 001**-031
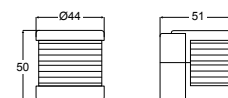
2 Nautical Mile Masthead / Anchor Lamps - Fixed base

Overall Length	Black Housing	White Housing
4" / 102mm	2LT 99**5 003**-001	2LT 99**5 003**-041
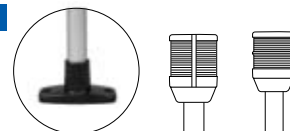
2 Nautical Mile Masthead / Anchor Lamps - Fold down base

Overall Length	Black Housing	White Housing
8" / 204mm	2LT 99**5 003**-021	2LT 99**5 003**-061
20" / 508mm	2LT 99**5 003**-031	2LT 99**5 003**-071

2LT 99**5 003**-021

2010 Series Spare Parts
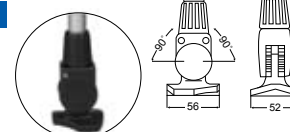
Lamp housing black		Lamp housing white		Lens		12V / 10W Bulb
Port	9EL 99**0 160**-001	Port	9EL 99**0 160**-021	Bi-Colour	9EL 99**0 161**-001	8GM 99**3 406**-001
Starboard	9EL 99**0 160**-011	Starboard	9EL 99**0 160**-031	Masthead	9EL 99**0 156**-001	
Stern	9EL 99**0 159**-001	Stern	9EL 99**0 159**-011			

2010 Series All Round White / Anchor Lamps

All Round White / Anchor lamps available in a wide range of pole lengths and base types. Featuring heavy duty anodized aluminium poles and impact resistant bases, the 2010 series lamps are also saltwater resistant and non-magnetic.

IMO COL REG 72	USCG
RINA	ABYC A-16

C E

Housing Description	UV and impact resistant plastic housing and lens. Anodized aluminium poles
Minimum Visible Distance	2 Nautical Mile
Bulb	12V / 10W SV8.5 included
Installation	Pre-wired with 100mm of cable. Includes stainless steel screws
Degree of Protection	IP X6
Approvals	IMO COLREG, USCG, ABYC A-16, RINA(I)

2LT 99**5 002**-131

2LT 99**5 002**-001

2 Nautical Mile All Round White / Anchor lamps with fixed mount

Overall Length	Black Base	White Base
4" / 102mm	2LT 99**5 002**-001	2LT 99**5 002**-131
8" / 204mm	2LT 99**5 002**-011	2LT 99**5 002**-141

Robust fixed mount with two counter-sunk holes.
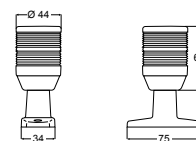
2LT 99**5 002**-151

2 Nautical Mile All Round White / Anchor lamps with fold down pole mount

Overall Length	Black Base	White Base
8" / 204mm	2LT 99**5 002**-021	2LT 99**5 002**-151
12" / 305mm	2LT 99**5 002**-051	2LT 99**5 002**-181
20" / 508mm	2LT 99**5 002**-031	2LT 99**5 002**-161

Lamp pole can be adjusted through 180 degrees and secured at desired angle with locking collar. Removable wedge for installation onto different surface cambers.
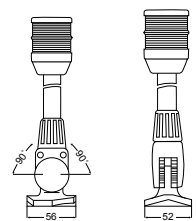
2LT 99**5 002**-031

2 Nautical Mile All Round White / Anchor lamps with plug-in pole mount

Overall Length	Black Base	White Base
24" / 610mm	2LT 99**5 002**-041	2LT 99**5 002**-171
36" / 914mm	2LT 99**5 002**-061	2LT 99**5 002**-191
42" / 1066mm	2LT 99**5 002**-071	2LT 99**5 002**-201
48" / 1220mm	2LT 99**5 002**-081	2LT 99**5 002**-211
54" / 1350mm	2LT 99**5 002**-091	2LT 99**5 002**-221

Pole plugs into lamp base and is fixed into position with locking collar. Rubber cap covers hole when pole is removed.
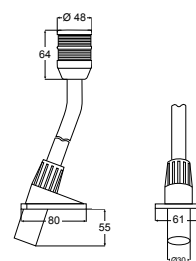
2 Nautical Mile All Round White / Anchor lamps with telescopic pole mount

Overall Length	Black Base	White Base
24" / 610mm	2LT 99**5 002**-101	2LT 99**5 002**-231

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

2LT 99**5 002**-101
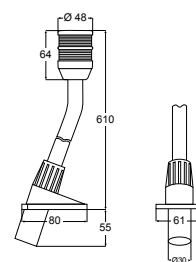
2010 Series Spare Parts

Lamp housing black. 9EL 99**0 157**-001	**Rubber cap black.** To suit Plug-in base 9GH 99**2 157**-041	**Plug-in base black** 8HG 99**2 157**-021	**Fold down base black** 8HG 99**2 158**-001	**12V / 10W Bulb** 8GM 99**3 406**-001
Lamp housing white. 9EL 99**0 157**-011	**Rubber cap white.** To suit Plug-in base 9GH 99**2 157**-051	**Plug-in base white** 8HG 99**2 157**-031	**Fold down base white** 8HG 99**2 158**-011	

Hella marine HELLA

Naviflex Bi-colour Lamps

'Naviflex' Bi-colour Retractable lamps

These unique retracting lamps save space and give an unobstructed deckline when not in use. NaviFLEX lamps automatically turn ON or OFF when raised and lowered by foot.
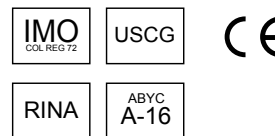
IMO COL REG 72 | USCG | C€
RINA | ABYC A-16

Housing Description	UV and impact resistant plastic housing and lens
Minimum Visible Distance	1 Nautical Mile
Bulb	12V / 10W SV8.5 included
Installation	Horizontal surface mount. Pre-wired with 200mm of cable
Degree of Protection	IP 54
Approvals	IMO COLREG, USCG, ABYC A-16, RINA(I)

1 Nautical Mile 'Naviflex' Bi-colour Lamps

Chrome Housing
2LT 99**5 006**-041

52
124
Ø72
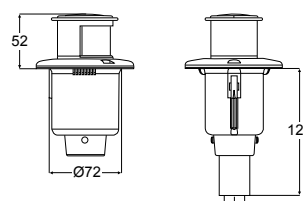
2492 Series Surface Mount All Round White Lamps

These All Round White / Anchor Lamps are saltwater proof, non-magnetic and internationally approved.
Available as a single unit for installation directly to horizontal surfaces or on a pole with a Plug-in base.
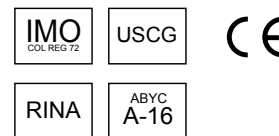
IMO COL REG 72 | USCG | C€
RINA | ABYC A-16

Housing Description	UV and impact resistant plastic housing and lens
Minimum Visible Distance	2 Nautical Mile
Bulb	12V / 10W BA15s included
Installation	Horizontal surface mount. Includes stainless steel screws
Degree of Protection	IP 54
Approvals	IMO COLREG, USCG, ABYC A-16, RINA(I)

68
Ø 60
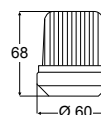
2 Nautical Mile All Round White / Anchor Lamps

Black Housing	White Housing
2LT 00**2 492**-201	2LT 00**2 492**-211

Ø 58
83
935
54
Ø30
58

2 Nautical Mile Plug-in All Round White / Anchor Lamps

Overall Length	Black Housing	White Housing
38" / 965mm	2LT 00**2 492**-221	2LT 00**2 492**-241

2492 Series Spare Parts

1 Lamp housing clear	**2** Seal	**3** 12V / 10W Bulb	Plug-in base black
9EL 11**1 681**-001	9GD 11**1 684**-001	8GA 00**2 071**-131	8HG 99**2 157**-021
			Plug-in base white
			8HG 99**2 157**-031

3562 Series Position Lamps

Compact and proven navigation lamps for yachts and powerboats.
Saltwater resistant and non-magnetic, 3562 series lamps feature a
'snap lock' housing allowing bulbs to be changed without tools.

*Not suitable for vessels on inland waterways subject
to German inland shipping regulations.*

IMO COL REG 72   USCG   CE

RINA   ABYC A-16

Housing Description	UV and impact resistant plastic housing and lens
Minimum Visible Distance	Masthead and Stern 2 Nautical Miles
	Red and Green 1 Nautical Mile
Bulb	12V / 10W SV8.5 included
Installation	Vertical surface mount. Mounting base available.
Cable Entry	Through base plate with rubber grommet
Degree of Protection	IP 54
Approvals	IMO COLREG, USCG, ABYC A-16, RINA(I)

63   53   75
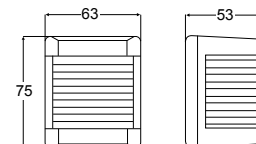
1 Nautical Mile Lamps	Black Housing	White Housing	
Port	2LT 003 562-031	2LT 003 562-131	
Port	2LT 003 562-067		GB
Starboard	2LT 003 562-021	2LT 003 562-121	
Starboard	2LT 003 562-057		GB
Bi-Colour	2LT 003 562-041	2LT 003 562-141	

2 Nautical Mile Lamps	Black Housing	White Housing	
Masthead	2LT 003 562-001	2LT 003 562-101	
Masthead	2LT 003 562-087		GB
Stern	2LT 003 562-011	2LT 003 562-111	
Stern	2LT 003 562-097		GB

3562 Series Spare Parts

1 Lamp housing black

Port	9EL 122 562-031
Starboard	9EL 122 562-021
Stern	9EL 122 562-011
Masthead	9EL 122 562-001
Bi-colour	9EL 123 669-001
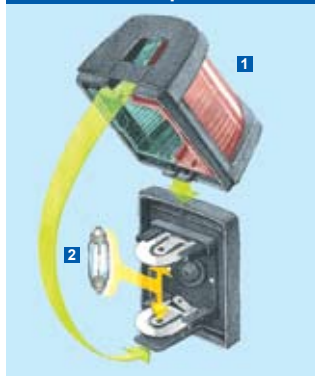
1 Lamp housing white

Port	9EL 122 562-111
Starboard	9EL 122 562-101
Stern	9EL 122 562-091
Masthead	9EL 122 562-081
Bi-colour	9EL 123 669-011

2 12V Bulb

8GM 002 091-131

8GM 002 091-191   **GB**

Mounting Base
For horizontal surfaces.

Black	8HG 005 799-001
White	8HG 005 799-011

2984 Series Position Lamps

BSH approved navigation lamps. Non-magnetic and saltwater resistant. Housing 'snaps' to base without screws.
2984 series position lamps feature a vertically hanging bulb and contacts in the upper area of each lamp to prevent corrosion.
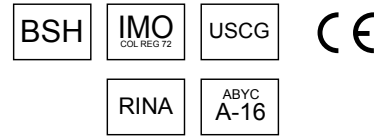
| BSH | IMO COL REG 72 | USCG |
| RINA | ABYC A-16 |

C€

| **Housing Description** | UV and impact resistant plastic housing and lens |
Minimum Visible Distance	Red/Green 2 NM, Stern 2 NM, Masthead 3 NM
	Red/Green 1 NM, Stern 2 NM, Masthead 2 NM DK N S FI
Bulb	12V BAY15d included
Installation	Vertical surface mount. Mounting accessories available.
Cable Entry	Through base plate with rubber grommet
Degree of Protection	IP 55
Approvals	IMO COLREG, BSH, USCG, ABYC A-16, RINA(I)

107   90   108
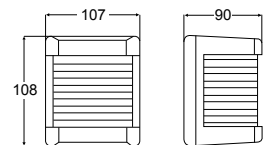
1 Nautical Mile Lamps	Black Housing	White Housing	
Port	2LT 00**2 984**-431		DK N
Starboard	2LT 00**2 984**-441		S FI
Bi-Colour	2LT 00**2 984**-411		

2 Nautical Mile Lamps	Black Housing	White Housing	
Port	2LT 00**2 984**-331	2LT 00**2 984**-381	
Starboard	2LT 00**2 984**-341	2LT 00**2 984**-391	
Bi-colour	2LT 00**2 984**-311	2LT 00**2 984**-361	
Stern	2LT 00**2 984**-321	2LT 00**2 984**-371	
Stern	2LT 00**2 984**-421		DK N
Masthead	2LT 00**2 984**-401		S FI

3 Nautical Mile Lamps	Black Housing	White Housing
Masthead	2LT 00**2 984**-301	2LT 00**2 984**-351

2984 Series Spare Parts
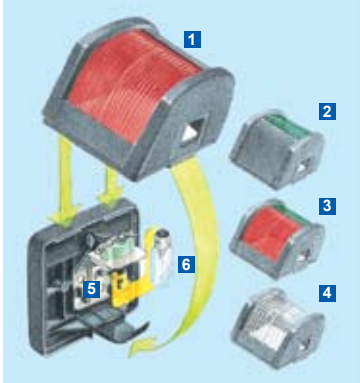
1 Lamp housing black
Port   9EL 12**7 083**-031
Lamp housing white
Port   9EL 12**7 083**-101

2 Lamp housing black
Starboard 9EL 12**7 083**-021
Lamp housing white
Starboard 9EL 12**7 083**-091

3 Lamp housing black
Bi-colour   9EL 12**7 083**-041
Lamp housing white
Bi-colour   9EL 12**7 083**-111

4 Lamp housing black
Masthead 9EL 12**7 083**-001
Stern   9EL 12**7 083**-011
Lamp housing white
Masthead 9EL 12**7 083**-071
Stern   9EL 12**7 083**-081

5 Bulb holder
9FT 12**6 931**-001

6 Bulbs

12V / 25W
8GA 00**3 488**-301

24V / 25W
8GA 00**3 488**-311

12V / 12cd	DK
8GA 00**3 488**-121	S
24V / 12cd	FI
8GA 00**3 488**-131	N

2984 Series Tri-colour Lamps

BSH approved Tri-colour lamps, and Tri-colour lamps with an integrated All Round White / Anchor Lamp for attachment to yacht masts. Non-magnetic and saltwater resistant. Lamp housing features a bayonet lock for easy bulb change.
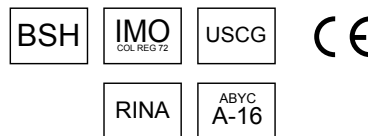
| BSH | IMO COL REG 72 | USCG | CE |
| RINA | ABYC A-16 | | |

|	
Housing Description	UV and impact resistant plastic housing and lens
Minimum Visible Distance	Red / Green 2 NM, Stern 2 NM, All Round White / Anchor 2 NM
	Red / Green 1 NM, Stern 2 NM, All Round White / Anchor 2 NM **DK FI S N**
Bulb	12V BAY15d included
	2LT 00**2 984**-531/-601 12V / 25W
	2LT 00**2 984**-551/-611/-631 12V / >10W (12cd)
Installation	Horizontal surface mount. Mounting accessories available.
Cable Entry	Through base plate with rubber grommet
Degree of Protection	IP 55
Approvals	IMO COLREG, BSH, USCG, ABYC A-16, RINA(I)

88
107
88
200
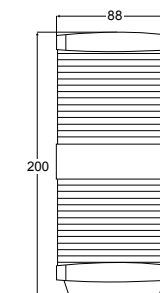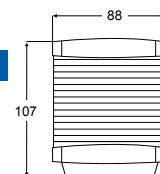
2 Nautical Mile Tri-colour Lamps

Black Housing	2LT 00**2 984**-531	
Black Housing	2LT 00**2 984**-551	**DK N S FI**

2 Nautical Mile Tri-colour Lamps with All Round White

Black Housing	2LT 00**2 984**-601	
Black Housing	2LT 00**2 984**-611	**DK N S FI**
White Housing	2LT 00**2 984**-631	

2984 Series Spare Parts

| 1 | |
| 2 | |

Lamp housing black
(Tri-colour lamp only)   9HD 12**3 744**-031
[1] Tri-colour with Anchor lamp   9HD 12**3 744**-041
[2] Tri-colour with Anchor lamp   9XS 12**3 742**-001

Bulb 12V
Tri-colour lamp   8GA 00**3 488**-301
Tri-colour with Anchor lamp   8GA 00**3 488**-301
                                    8GA 00**3 488**-121

Bulb 24V
Tri-colour lamp   8GA 00**3 488**-311
Tri-colour with Anchor lamp   8GA 00**3 488**-311
                                    8GA 00**3 488**-131

Bulb 12V
Tri-colour lamp   8GA 00**3 488**-121 / 12cd   **DK**
Tri-colour with Anchor lamp   8GA 00**3 488**-121 / 12cd   **S**

Bulb 24V   **FI**
Tri-colour lamp   8GA 00**3 488**-131 / 12cd   **N**
Tri-colour with Anchor lamp   8GA 00**3 488**-131 / 12cd

Seal
Tri-colour lamp   9GD 10**9 701**-221
Tri-colour with Anchor lamp   9GD 10**9 701**-221

2984 Series All Round Lamps

BSH approved, saltwater resistant and non-magnetic, they feature a bayonet lock on the lamp housing for easy bulb change. Designed for permanent installation or hoisting up masts.
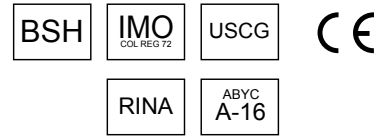
| BSH | IMO COL REG 72 | USCG |
| RINA | ABYC A-16 |

CE

Housing Description	UV and impact resistant plastic housing and lens
Minimum Visible Distance	2 Nautical Mile, 3 Nautical Mile **F** (Anchor lamps only)
Bulb	12V BAY15d included
	2LT 00**2 984**-511/-521 12V / 25W
	2LT 00**2 984**-541 12V / 25W / 18cd
	2LT 00**2 984**-501 12V / >10W
	2LT 00**2 984**-561 12V / >10W
Installation	Horizontal surface mount. Mounting accessories available.
Cable Entry	Through base plate with rubber grommet
Degree of Protection	IP 55
Approvals	IMO COLREG, BSH, USCG, ABYC A-16, RINA(I)

88
107
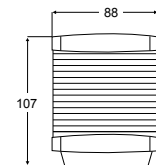
2 Nautical Mile All Round White / Anchor Lamps

Black Housing	2LT 00**2 984**-501
White Housing	2LT 00**2 984**-561

2 Nautical Mile All Round Red Lamps

Black Housing	2LT 00**2 984**-521	
Black Housing	2LT 00**2 984**-541	DK N S FI

2 Nautical Mile All Round Green Lamps

Black Housing	2LT 00**2 984**-511

2984 Series Spare Parts

1   **Lamp housing / lens black**

All Round White / Anchor	9HD 12**3 744**-001
All Round Red	9HD 12**3 744**-021
All Round Green	9XS 12**3 742**-011

Lamp housing / lens white

All Round White / Anchor	9HD 12**3 744**-071

Bulb 12V

All Round White / Anchor	8GA 00**3 488**-301
All Round Red	8GA 00**3 488**-301
All Round Green	8GA 00**3 488**-301

Bulb 24V

All Round White / Anchor	8GA 00**3 488**-131
All Round Red	8GA 00**3 488**-311
All Round Green	8GA 00**3 488**-311

Bulb 12V		DK
All Round Red	8GA 00**3 488**-181 / 18cd	S
Bulb 24V		FI
All Round Red	8GA 00**3 488**-191 / 18cd	N

2   **Seal**

All lamp housings	9GD 10**9 701**-221

Cap

All lamp housings	9HD 13**2 905**-001

1
2

Hella marine (HELLA)

2984 Series 'Easy Fit' All Round Lamps

'Easy Fit' All Round White / Anchor lamps with optional Strobe function.

The Hella marine 'Easy Fit' system allows simple removal of the lamps without tools and without having to remove the cable.
The cap is sealed to protect the contacts from moisture.
This anchor lamp model also has an additional flashing strobe function to attract attention in emergencies.

| BSH | IMO
COL REG 72 | USCG |
| RINA | ABYC
A-16 |

CE

Housing Description	UV and impact resistant plastic housing and lens
Minimum Visible Distance	2 Nautical Mile (All Round Lamp)
Flashing Visible Distance	2 Nautical Mile (Strobe)
Bulb	12V / 10W BAY15d included
Strobe	12V Xenon strobe tube (60 flashes per minute, included with lamp)
Installation	Horizontal surface mount
	Lamp can be attached and removed without tools
Cable Entry	Through base plate with rubber grommet
Degree of Protection	IP 55
Approvals	IMO COLREG, BSH, USCG, ABYC A-16, RINA(I)

88

171
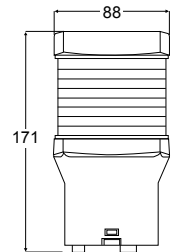
2 Nautical Mile All Round White	
Black Housing	2LT 00**2 984**-801
White Housing	2LT 00**2 984**-811

2 Nautical Mile All Round White with Strobe Function	
Black Housing	2LT 00**2 984**-821
White Housing	2LT 00**2 984**-831

2984 Series Spare Parts

Lamp housing black	**Bulb 12V**
9HD 12**3 744**-001	8GA 00**3 488**-121 / >10W

Lamp housing white	**Bulb 24V**
9HD 12**3 744**-071	8GA 00**3 488**-131 / >10W

Bulb 12V 8GA 00**3 488**-121	DK S
Bulb 24V 8GA 00**3 488**-131	FI N

Classic Line Series

BSH approved Classic Line navigation lamps offer durable and timeless stainless steel jackets.
The lamps are saltwater resistant and non-magnetic, with a centrally located connector for easy bulb changes.
Classic Line lamps are removable when the universal mount is used.

BSH	IMO COL REG 72	USCG
RINA	A-16 ABYC	

CE

ClassicLine

Housing Description	Polished stainless steel jacket. UV and impact resistant housing and lens.
Minimum Visible Distance	Red / Green 2 NM, Stern 2 NM, Masthead 3NM
Bulb	12V BAY15d included
	2LT 00**2 386**-001/-061 - 12V / 25W
	2LT 00**2 386**-021 - 12V / >10W
	2LT 00**2 386**-401/-441 - 12V / 25W / 18cd
Installation	2LT 00**2 386**-001/-041 and 2LT 00**2 386**-401/-441 with insert bracket
	2LT 00**2 386**-051/-061 for direct attachment to horizontal surfaces
Cable Entry	Through base plate with rubber grommet
Degree of Protection	IP 55
Approvals	IMO COLREG, BSH, USCG, ABYC A-16, RINA(I)

130   98
120   235
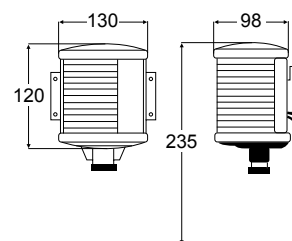
2 Nautical Mile Lamps	12V / 25W	12V / 25W 18cd		
Port	2LT 00**2 386**-041	2LT 00**2 386**-441		
Starboard	2LT 00**2 386**-031	2LT 00**2 386**-431	DK	N
Bi-Colour	2LT 00**2 386**-011	2LT 00**2 386**-411	S	FI
Stern	2LT 00**2 386**-021	2LT 00**2 386**-421		
Port - Direct Mount*	2LT 00**2 386**-061			
Starboard - Direct Mount*	2LT 00**2 386**-051			

*Designed for attachment to horizontal surfaces.

3 Nautical Mile Lamps	12V / 25W	12V / 25W 18cd				
Masthead	2LT 00**2 386**-001	2LT 00**2 386**-401	DK	N	S	FI

3562 Series Spare Parts

1	**Lever** 9SH 11**1 038**-001	3	**Pressure screw** 9NS 13**1 940**-001	5	**Bulb 12V** 8GA 00**3 488**-301 / 25W
					Bulb 24V 8GA 00**3 488**-311 / 25W
2	**Universal bracket** 9SH 11**1 037**-001	4	**Bulb holder** 9FT 11**9 429**-001		**Bulb 12V** 8GA 00**3 488**-181 / 18cd
					Bulb 24V 8GA 00**3 488**-191 / 18cd

DK S FI N

Deck Floodlights

Hella marine HELLA®

Vision and Innovation

Introduction

The comprehensive range of Hella marine Deck Floodlights represents superior technology, high performance and durability.

Features include advanced lens and reflector designs for homogeneous light output, stainless steel mounting components and impact resistant housings for reliable operation at sea.

Reflector systems used in Hella marine Deck Floodlights

The Paraboloid Deck Floodlights

A conventional deck floodlight has a light reflector in the mathematically defined shape of a paraboloid. The reflector captures the light of the bulb and reflects it initially focused parallel in the form of far-reaching pencil beam pattern. The specific light distribution pattern is then produced by the optical lenses and prisms in the profiled cover lens to achieve a precise distribution pattern.

Paraboloid reflector with profiled cover lens
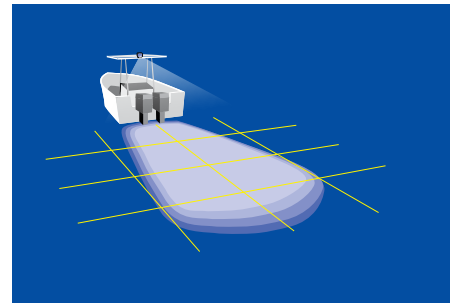
Modern FF (Free Form) Deck Floodlights

In contrast to the paraboloid based technology, the task of the cover lens of distributing the light is integrated into the surface of the reflector which is shaped as a Free Form. The computer-calculated FF reflector produces the required beam pattern. The optical pattern still present in the cover lens enhances the uniformity of the light beam.

Advantages of FF technology:

• Small FF reflectors capture more light from the bulb and achieve a large working area.

• Much larger beam scattering can be realised for extremely wide beam patterns.

• The more homogeneous illumination means more pleasant working light with soft transitions at the edges without harsh contrasts.
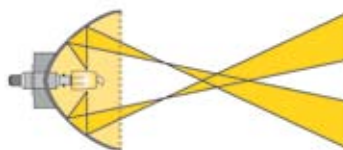
Free Form reflector
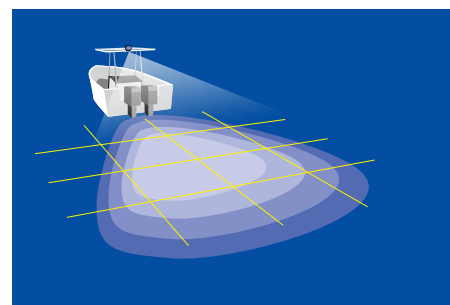
Introduction

Xenon Gas Discharge (HID) Technology

HID Deck Floodlights differ from traditional bulb versions in that, instead of light being created by passing current through a filament to make it glow, light is created by an arc in a tube filled with a mixture of xenon gas and metal salts. The light arc is shock proof as there is no filament to break.

A compact 12V or 24V DC electronic ballast is used to ignite the HID bulb and provide constant levels of light output, even if the vessel's voltage supply fluctuates by up to 10%.

The advantages of using Xenon Gas Discharge (HID) deck floodlights in comparison to halogen versions include:

• 2.5 times the luminous flux (light output) and 35% less power consumption.
• Increased luminance results in a brighter and larger illumination of working areas.
• Light spectrum is similar to daylight – for natural colour reproduction of the environment.
• Vibration resistant light arc instead of a fragile filament.
• Service life up to five times longer – reduced expenditure for bulb replacement.
• Constant brightness – independent of fluctuations of up to 10% in the supply voltage.
• Only 42W power consumption – less strain on the vessel's power supply.
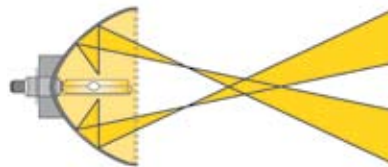
Free Form reflector with Gas Dischage (HID)
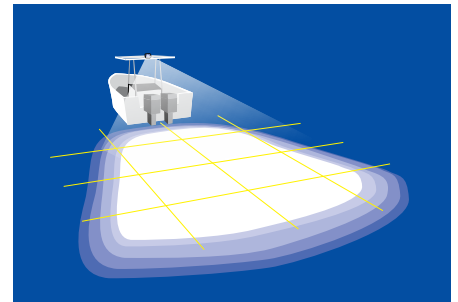
Important information concerning mounting and operation of Xenon Gas Discharge (HID) technology.

• HID deck floodlights are supplied with a wiring harness, relay and fuse. The startup current of 20A (for 12V) or 10A (for 24V) requires a relay under all circumstances. A 20A fuse is required for 12V systems, a 15A fuse for 24V systems.

• Complete the electrical connection only with wiring harness supplied. When extending the wiring harness, sufficient cross section must be ensured. The internal resistance of the electrical connection (including relay, fuse and earth lead) between ballast and battery, must not exceed 150Ω (for 12V) or 300Ω (for 24V) under all circumstances. If the resistance is higher, the current of 20A (for 12V) or 10A (for 24V) required for ignition of the light arc cannot be reached. Inefficient ignition use can cause damage to the electronic ballast.

• Ignition problems can occur when a number of Xenon lamps are started simultaneously. This can result in damage to the electronic ballasts. For this reason it is strongly recommended to activate the lamps sequentially with a short time delay of approximately 5-20 seconds depending on the vessels electrical system.

6136 Series LED Mega Beam
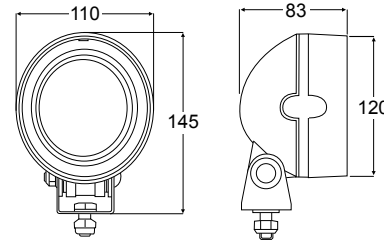
The Hella marine LED Mega Beam is a close range deck floodlight providing all the reliability and power saving advantages of Hella marine LED technology.

Ultra reliable LED technology enabled the design of a compact marine floodlight suitable for applications subject to high vibration, impact and shock loads all in a completely sealed housing that needs no service. Supplied with stainless steel mounting hardware and pre-wired with 2m of marine cable, each lamp is a completely sealed 'fit and forget' unit.

Advanced Hella marine Free-Form reflector optics and LED technology combine to provide high intensity white light for close range homogeneous illumination.

Power consumption is 7W (0.58A @ 12V), or 15% of the energy required to operate a 55W H3 halogen floodlight, thus providing substantial power savings onboard. Hella marine Multivolt™ electronics provide consistent illumination and circuit protection across a range of inputs from 9-30V DC for an ultra long service life.

LED Mega Beam floodlights are the answer for energy efficient, completely sealed, shock and vibration resistant illumination.

LED *Multivolt*

C E

110   83

145   120

- *Ultra low power consumption*

- *Ultra long service life*

- *No Bulbs*

- *No Maintenance*

- *Multivolt™*

- *Shock and Vibration resistant*

- *Pre-wired*

- *Fit and Forget*

Housing Description	UV and impact resistant plastic front housing
	Die cast aluminium body, Clear glass lens
Light Source	LED
Installation	Pre-wired with 2.0m of twin core marine cable
Operating Voltage	Multivolt™ 9-30V DC
Protection	Reverse Polarity and Spike Protected
Protective System	Completely sealed
Power Consumption	7W
Colour Temperature	6500K
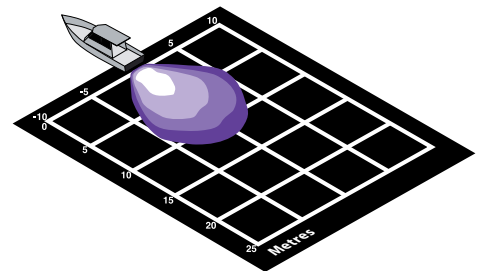
LED *Multivolt*

LED Mega Beam Deck Floodlights

Voltage	Housing Colour	Part Number
9-30V	White Housing	1GM 99**6 136**-121
9-30V	Black Housing	1GM 99**6 136**-181

Xenon Gas Discharge (HID)

More light, greater safety, less power consumption, longer life and proven reliability in tough working conditions.

Hella marine HID floodlights use a D2S Xenon bulb that provides up to 5 times the service life of a traditional halogen bulb. Due to advanced 'Free Form' reflector technology, Hella marine HID floodlights have 2.5 times the light output of halogen floodlights.

HID floodlights produce a white light very close to daylight, with a greater range and extremely wide deck illumination. The safety benefits of increased natural white light include easier viewing in dark working conditions and dramatically reduced eye strain.
A compact 12V or 24V DC electronic ballast provides constant levels of light output, even if the vessel's voltage supply fluctuates by up to 10%.
In addition, HID floodlights place less strain on the vessel's electrical system than halogen deck floodlights - total consumption is 42W - 35W for the bulb, 7W for the ballast.

Features:
- 2.5 times the light intensity of a 55W halogen bulb floodlamp.
- FF reflector provides an even illumination over an extremely large area with a light output very close to daylight.
- Only 42W power consumption – lower current requirements, less strain on the vessel's electrical system.
- Gas discharge bulb with 5 times the service life of a halogen bulb.
- Uses a shock resistant light arc instead of a breakable filament.
- Brightness is independent of supply voltage fluctuations.
- Lamp swivels vertically 105° and horizontally 360°.
- Operation temperature range -40°C to +105°C (body).
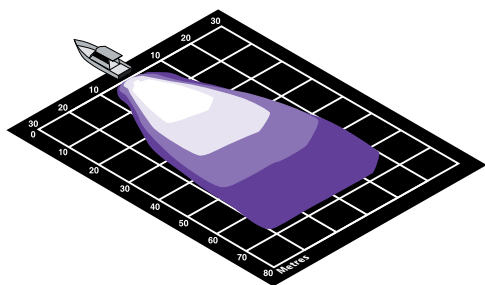
C E

Housing Description	UV and impact resistant plastic housing
Bulb	35W D2S bulb included
Mounting	Pendant or Upright mounting
Degree of Protection	IP 5K4
Maximum Output	Approx. 42W (12V) or 41W (24V)
Operating Voltage	12V DC 9 - 16V
	24V DC 18 - 32V

Replacement Bulb Type -

D2S
12 / 24V / 35W
Gas discharge bulb
8GH 00**2 091**-001

6142 Series
Xenon Gas Discharge Lamps with integrated ballast

Voltage	
1GA 99**6 142**-201	12V
1GA 99**6 142**-211	24V

160 · 163 · 50 · 191 · 150 · 62 · 54 · 69.5 · Ø 6.5 · 27
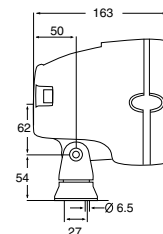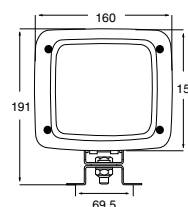
8534 Series
Xenon Gas Discharge Lamps with remote ballast

Voltage	
1GA 99**8 534**-021	12V
1GA 99**8 534**-031	24V

127 · 24 · 112 · 101 84 · 350 · 24 · 93 · 140
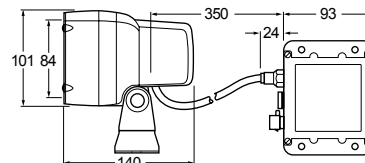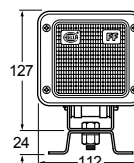
Hella marine HELLA

8505 Series Masthead / Floodlight Combination Lamps

8505 Series

Deck Floodlight and Masthead Lamp combined in one robust housing.
Suitable for vessels less than 12m in length.

Features:
- 2 Nautical Mile Masthead lamp 2LT 00**3 562**-00.
- Hella marine 'Free Form' reflector technology.
- Flexible mounting arms for mounting on a variety of mast profiles.
- Halogen reflector lamp (12V / 20W) with cover for moisture protection.
- All metal parts are stainless steel.
- Bulb replaces via opening in the cover.
- Black or White fibre reinforced housing
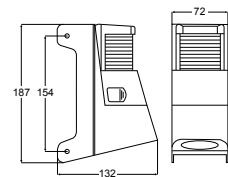
IMO COL REG 72 | USCG | CE

RINA | ABYC A-16

Replacement Bulb Type -

Floodlight GX5.3
12V / 20W

Masthead SV8.5
12V / 10W

Housing Description	UV and impact resistant plastic housing
Bulbs	12V / 10W SV8.5 and 12V / 20W GX5.3 bulbs included
Mounting	Navigation lamp requires wiring through grommet on back plate
	Floodlight pre-wired with 110mm of cable
	Housing arms flex to fit around mast profile
Degree of Protection	IP X4
Maximum Output	Deck lamp 12V / 20W

Deck Floodlight	Housing Colour
2LT 99**8 505**-001	Black
2LT 99**8 505**-011	White
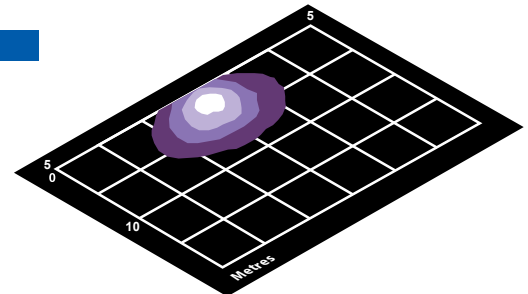
8505 Series Spare Parts

1 **Lamp housing black**
9EL 12**2 562**-001
Lamp housing white
9EL 12**2 562**-081

2 **Insert**
8GH 99**8 529**-001

3 **Bulb**
8GM 00**2 091**-131 / 10W

8504 Series Masthead / Floodlight Combination Lamps

8504 Series

Deck Floodlight and Masthead Lamp combined in one robust housing.
Suitable for vessels less than 20m in length.

BSH | IMO COL REG 72 | USCG | CE

RINA | ABYC A-16
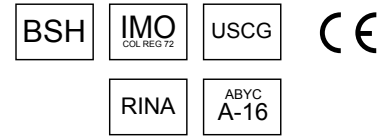
Features:
- 3 Nautical Mile Masthead lamp 2LT 00**2 984**-30.
- Hella 'Free Form' reflector technology.
- Flexible mounting arms for mounting on a variety of mast profiles.
- Illuminates large areas of deck or superstructure.
- Glass lens bonded with reflector to be dust and moisture resistant.
- Covered bulbs for moisture protection.
- All metal parts are stainless steel.
- Black or White fibre reinforced housing
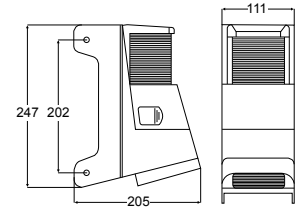
Housing Description	UV and impact resistant plastic housing
Bulbs	12V / 10W BAY15d and 12V / 55W H3 bulbs included
Mounting	Navigation lamp and Deck Floodlight require separate wiring
	Housing arms flex to fit around mast profile
Degree of Protection	IP X4
Maximum Output	Deck lamp 12V / 55W or 24V / 70W

Note - Not suitable for 100W bulbs

Replacement Bulb Type -

Floodlight PK22s
12V / 55W
24V / 70W

Masthead BAY15d
12/24V / 25W

Deck Floodlight	Housing Colour
2LT 99**8 504**-001	Black
2LT 99**8 504**-011	White
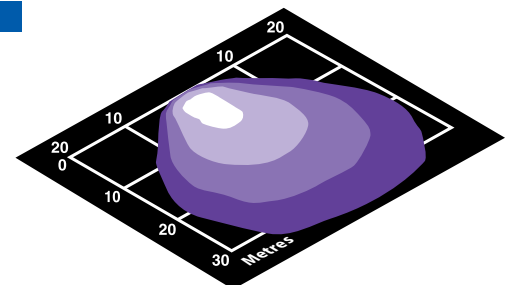
8504 Series Spare Parts

1	**Lamp housing black**
	9EL 12**7 083**-001
	Lamp housing white
	9EL 12**7 083**-071
2	**Bulb holder**
	9FT 12**6 931**-001
3	**Insert**
	1GA 99**8 525**-002
4	**Bulb**
	8GH 00**2 090**-131 12V / 55W
	8GH 00**2 090**-251 24V / 70W
5	**Bulb**
	8GA 00**3 488**-301 12V
	8GA 00**3 488**-311 24V

8503 Series Halogen

8503 Series

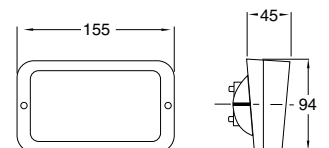Floodlight for mounting on masts. Black or White fibre reinforced housing and Free Form reflector for close range homogeneous illumination.

Features:
- Hella 'Free Form' reflector technology.
- Flexible mounting arms for mounting on a variety of mast profiles.
- Illuminates large areas of deck or superstructure.
- Glass lens bonded with reflector to be dust and moisture resistant.
- All metal parts are stainless steel.
- Compact design.
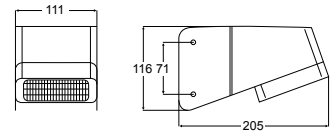
Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 55W H3 bulb included
Mounting	Housing arms flex to fit around mast profile
Degree of Protection	IP X4
Maximum Output	12V / 55W or 24V / 70W
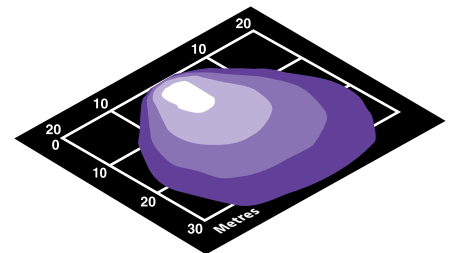
Deck Floodlight	Housing Colour
1GA 99**8 503**-001	Black
1GA 99**8 503**-011	White

8506 Series

Compact and powerful halogen floodlight for mounting underneath spreaders.

Features:
- Hella 'Free Form' reflector technology.
- Cable entrance through rubber grommet.
- Halogen reflector lamp (12V / 20W) protective cover.
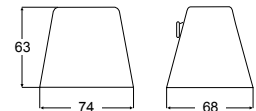
Replacement Bulb Type -

GX5.3
12V / 20W

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 20W GX5.3 included
Mounting	Pre-wired with 110mm of cable
Degree of Protection	IP X4
Maximum Output	12V / 20W
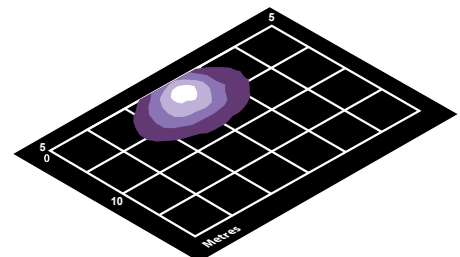
Spreader lamp	Spreader lamp with switch
1GA 99**8 506**-001	1GA 99**8 506**-021

Spreader lamp (Incl. mast bracket)	Bracket
1GA 99**8 506**-031	For mast mounting Stainless Steel 8HG 99**8 536**-001

7118 Series Halogen

Off White Housing - Structured Lens

Ice White Housing - Crystal FF Lens

7118 Series

White fibre reinforced housing and Free Form reflector for close range homogeneous illumination.

Features:
- Hella 'Free Form' reflector technology.
- Extended front edge for lens protection.
- Large 135 x 75mm light aperture.
- Stainless steel bracket, bolts and screws.

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 55W H3 bulb included
Mounting	Pendant or Upright mounting
Degree of Protection	IP X4
Maximum Output	12V / 55W or 24V / 70W
	Note - Not suitable for 100W bulbs

155   77
128   94
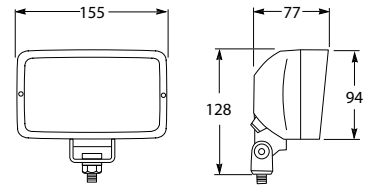
Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W
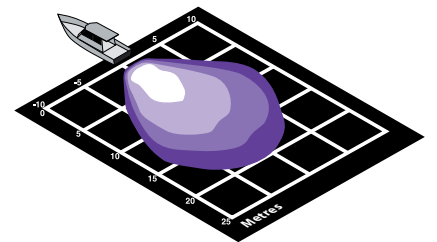
Halogen Deck Floodlight	Bracket	
1GA 00**7 118**-001 Off White Housing - Structured Lens		Stainless steel bracket for stabilised mounting in areas subject to vibration.
1GA 00**7 118**-081 Ice White Housing - Crystal FF Lens		9XD 13**0 261**-000

Off White Housing - Structured Lens

8518 Series - Flush Mount

White fibre reinforced housing and Free Form reflector for close range homogeneous illumination.

Features:
- Seal between frame and attachment surface.
- Cable entrance through rubber grommet.
- Large 135 x 75mm light aperture.
- Stainless steel screws.

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 55W H3 bulb included
Mounting	Recess mount - Front inclination 5 degrees
Degree of Protection	IP X4
Maximum Output	12V / 55W or 24V / 70W
	Note - Not suitable for 100W bulbs

155   45
94

Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W
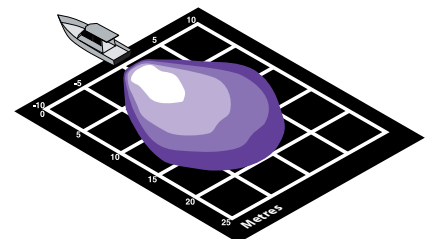
Recessed Halogen Deck Floodlight
1GA 00**8 518**-001 Off White Housing - Structured Lens

8517 Series Halogen

8517 Series

White fibre reinforced housing and Free Form reflector for close range homogeneous illumination.

Features:
- Hella 'Free Form' reflector technology.
- Compact design.
- Illuminates large areas of deck or superstructure.
- Glass lens bonded with reflector to be dust and moisture resistant.
- Sealed cable entry via 2 pin plug.
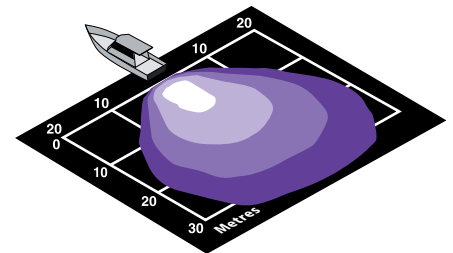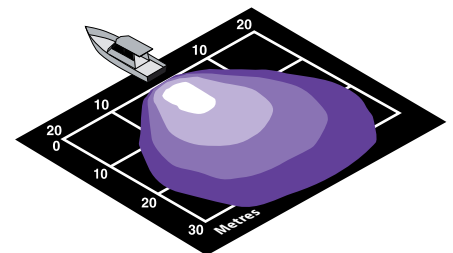- Stainless steel bracket, bolts and screws.

112   97
126

Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 55W H3 bulb included
Mounting	Pendant or Upright mounting, 2-pin (AMP 180923-0)
Degree of Protection	IP 6K 9K
Maximum Output	12V / 55W or 24V / 70W
	Note - Not suitable for 100W bulbs

Halogen Deck Floodlight	Bracket
1GA 99**8 517**-001	Stainless steel bracket for stabilised mounting in areas subject to vibration. 9XD 13**0 261**-000

8517 Series - Flush Mount

White fibre reinforced housing and Free Form reflector for close range homogeneous illumination.

Features:
- Hella 'Free Form' reflector technology.
- Compact design.
- Illuminates large areas of deck or superstructure.
- Glass lens bonded with reflector to be dust and moisture resistant.
- Sealed cable entry via 2 pin plug.
- Stainless steel screws.

112   42 46
101

Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 55W H3 bulb included
Mounting	Recess Mount, 2-pin (AMP 180923-0)
Degree of Protection	IP 6K 9K
Maximum Output	12V / 55W or 24V / 70 W
	Note - Not suitable for 100W bulbs

| Recessed Halogen Deck Floodlight |
|---|
| 1GA 99**8 517**-031 |

8541 Series Halogen

8541 Series

Wide spread close range illumination with double Free Form reflector. White fibre reinforced plastic housing with extended front edge to protect lens.

Features:
- Twin Hella 'Free Form' reflector technology.
- Triple the light output compared to conventional lamps of the same size.
- Large 145 x 83mm light aperture.
- Extended front edge for lens protection.
- Stainless steel bracket, bolts and screws.

Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W

Housing Description	UV and impact resistant plastic housing
Bulb	2 x 12V / 55W H3 bulbs included
Mounting	Pendant or Upright mounting, Pre-wired with 250mm of cable
Degree of Protection	IP 54
Maximum Output	2 x 12V / 55W or 2 x 24V / 70W

Note - Not suitable for 100W bulbs

Halogen Deck Floodlight	Bracket
1GB 99**8 541**-001	Stainless steel bracket for stabilised mounting in areas subject to vibration. 9XD 13**0 261**-000

8542 Series - Flush Mount

Wide spread close range illumination with double Free Form reflector. Flush mount fibre reinforced plastic housing with extended front edge to protect lens.

Features:
- Twin Hella 'Free Form' reflector technology.
- Triple the light output compared to conventional deck lamps of the same size.
- Extended front edge for lens protection.
- Large 145 x 83mm light aperture.
- 7° upwards or downwards inclination.
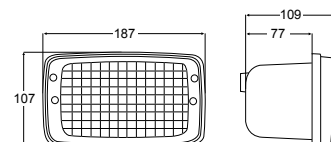
Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W

Housing Description	UV and impact resistant plastic housing
Bulb	2 x 12V / 55W H3 bulbs included
Mounting	Recess Mount. Pre-wired with 250mm of cable
Degree of Protection	IP 54
Maximum Output	2 x 12V / 55W or 2 x 24V / 70W

Note - Not suitable for 100W bulbs
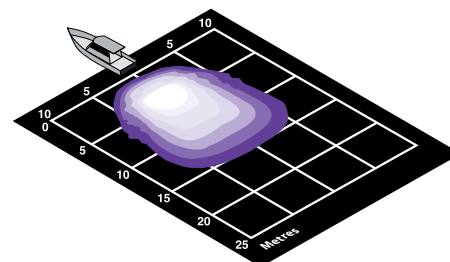
Recessed Halogen Deck Floodlight
1GB 99**8 542**-001

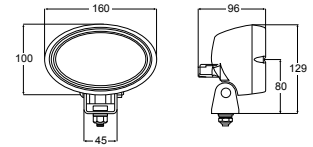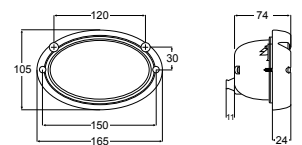**Hella marine** HELLA

Oval 100 Series Halogen

Oval 100 Series

White fibre reinforced housing and Free Form reflector for close range homogeneous illumination. Sturdy housing design for use under heavy duty conditions.

Features:
- Extended front edge for lens protection.
- Glass lens bonded with reflector to be dust and moisture resistant.
- Stainless steel bracket, bolts and screws.
- Sealed cable entry via threaded gland with nut.
- Suitable for applications subject to heavy vibration.
- Upright or pendant mounting. Can be rotated through 180°.

Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 55W or 24V / 70W H3 bulb included
Mounting	Pendant or Upright mounting,
	Pre-wired with 300mm of cable
Degree of Protection	IP 6K 9K
Maximum Output	12V / 55W or 24V / 70W

Note - Not suitable for 100W bulbs
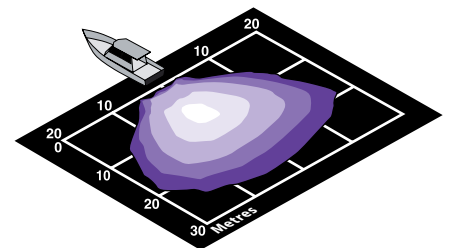
Halogen Deck Floodlight	Voltage		Bracket
1GA 99**6 361**-131	12V		Stainless steel bracket for stabilised mounting in areas subject to vibration.
1GA 99**6 361**-391	24V		9XD 13**0 261**-000
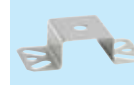
Oval 100 Series - Flush Mount

White fibre reinforced housing and Free Form reflector for close range homogeneous illumination. Sturdy housing design for use under heavy duty conditions.

Features:
- Extended front edge for lens protection.
- Glass lens bonded with reflector to be dust and moisture proof.
- Sealed cable entry via threaded gland with nut.
- Suitable for applications subject to heavy vibration.

Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 55W or 24V / 70W H3 bulb included
Mounting	Recess Mount
	Pre-wired with 300mm of cable
Degree of Protection	IP 6K 9K
Maximum Output	12V / 55W or 24V / 70W

Note - Not suitable for 100W bulbs
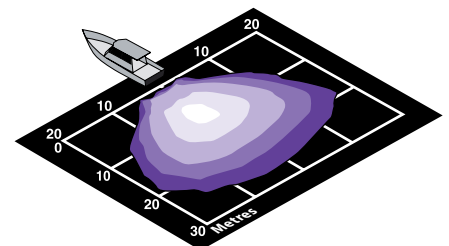
Recessed Halogen Deck Floodlight	Voltage
1GA 99**6 361**-141	12V
1GA 99**6 361**-401	24V

Hella marine HELLA

6134 Series Halogen

6134 Series

White fibre reinforced housing and Free Form reflector for close range homogeneous illumination. Flush mount with extended front edge to protect lens.

Features:
- Glass lens bonded with reflector to be dust and moisture resistant.
- Extended front edge for lens protection.
- Stainless steel bracket, bolts and screws.
- Sealed cable entry via 2 pin plug.
- Suitable for applications subject to heavy vibration.
- Upright or pendant mounting. Can be rotated through 130°.
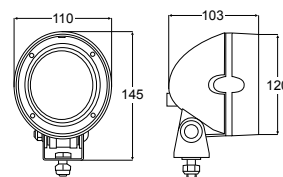
Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 55W or 24V / 70W H3 bulb included
Mounting	Pendant or Upright mounting,
	Outer plug connection 2 pin (AMP 1809230)
Degree of Protection	IP 5K 6K
Maximum Output	12V / 55W or 24V / 70W

Note - Not suitable for 100W bulbs
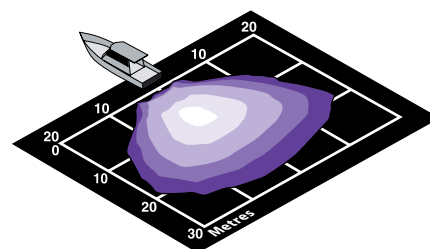
Halogen Deck Floodlight	Voltage	Bracket
1GM 99**6 134**-201	12V	Stainless steel bracket for stabilised mounting in areas subject to vibration. 9XD 13**0 261**-000
1GM 99**6 134**-211	24V	

6134 Series - Flush Mount

White fibre reinforced housing and Free Form reflector for close range homogeneous illumination.

Features:
- Glass lens bonded with reflector to be dust and moisture resistant.
- Extended front edge for lens protection.
- Sealed cable entry via 2 pin plug.
- Suitable for applications subject to heavy vibration.
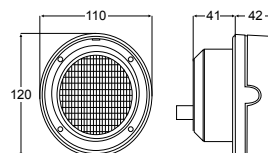
Replacement Bulb Type -

PK22s
12V / 55W
24V / 70W

Housing Description	UV and impact resistant plastic housing
Bulb	12V / 55W or 24V / 70W H3 bulb included
Mounting	Recess Mount. Pre-wired with 250mm of cable
	Outer plug connection 2 pin (AMP 1809230)
Degree of Protection	IP 5K 6K
Maximum Output	12V / 55W or 24V / 70W

Note - Not suitable for 100W bulbs
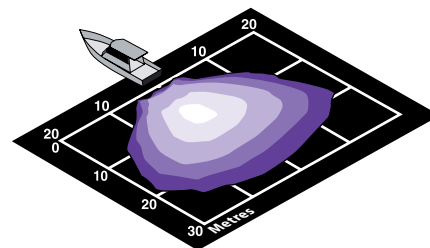
Recessed Halogen Deck Floodlight	Voltage
1GM 99**6 134**-501	12V
1GM 99**6 134**-511	24V

Hella marine HELLA

Twin Beam Halogen Lights

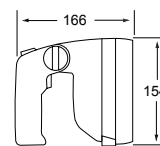## Powerful Twin Beam Hand Held Search Light

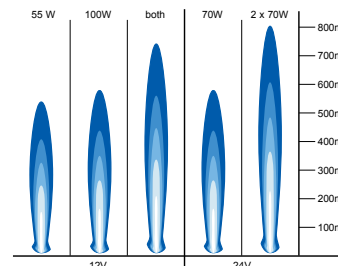Hella marine hand held search lights are vital tools for night sailing and landing manoeuvres.

Features:
- Two reflectors and two halogen bulbs on separate switches.
- 55W bulb for close range. 100W bulb for long range. (12V Version)
- 2 x 70W bulbs. (24V Version)
- Trigger switch integrated into the grip allows morse code operation.
- Extended front edge for protection of the glass lens.

Housing Description	Shock and vibration resistant plastic
	High gloss aluminium reflector
Bulbs	1 x 12V / 55W H3 bulb included
	1 x 12V / 100W H3 bulb included
	2 x 24V / 70W H3 bulbs (24V version)
Installation	Spiral cable with cigarette lighter plug
	Extended length 3.5m
Degree of Protection	IP X6K

Twin Beam Hand Held Search Lights	
12V	1H3 99**8 502**-001
24V	1H3 99**8 502**-011

166
154

Illumination Distance

55 W · 100W · both · 70W · 2 x 70W
800m · 700m · 600m · 500m · 400m · 300m · 200m · 100m
12V · 24V

Replacement Bulb Type -
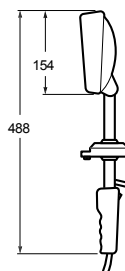**PK22s**
12V / 55W
12V / 100W
24V / 70W

Powerful Twin Beam Fixed Mount Search Light

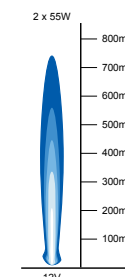Designed for installations through cabin roofs.

Features:
- Two reflectors and two halogen bulbs on separate switches.
- Two 12V / 55W or 24V / 70W bulbs.
- 360° rotation. 30° vertical adjustment.
- Extended front edge for protection of the glass lens.

Housing Description	Shock and vibration resistant plastic
	High gloss aluminium reflector
Bulbs	2 x 12V / 55W H3 bulbs included
	2 x 24V / 70W H3 bulbs included
Installation	Pre-wired with 350mm of cable
	Grommet sealed. O-ring included
Degree of Protection	IP X6K

Fixed Mount Search Lights	
12V	1H3 99**8 502**-021
24V	1H3 99**8 502**-041

154
488

Illumination Distance

2 x 55W
800m · 700m · 600m · 500m · 400m · 300m · 200m · 100m
12V

Replacement Bulb Type -
PK22s
12V / 55W
24V / 70W

Spare Parts - Hand Held Search Lights

1	**Light unit**
	9DS 99**8 528**-001
2	**Grip with spiral cable**
	9GP 99**8 005**-001
3	**Plug**
	8JB 99**8 006**-001

Deck mount base
8HG 99**8 519**-001

Spare Parts - Fixed Mount Search Lights

1	**Light unit**
	9DS 99**8 528**-001
2	**Switch**
	9MK 99**8 004**-001

Interior / Exterior Lighting

Hella marine ®

Vision and Innovation

## LED Interior / Exterior Lamps

LED Slim Line Round Series

Enhanced brightness LED lamps in white and warm white.
Completely sealed and suitable for interior and exterior installations.
Mounting spacer allows lamp to be surface or flush mounted.

Material Description	UV and impact resistant plastic
Installation	Pre-wired with 120mm of cable
Operating Voltage	12V or 24V DC
Power Consumption	0.5W

a = 50mm
b = 13mm
c = 21mm
d = 75mm plastic rims
 72mm stainless steel rims
e = 75mm
f = 15mm
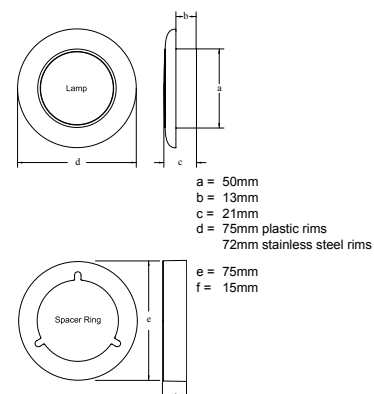
White Light	12V DC	24V DC
Satin stainless steel rim	2XT 98**0 500**-591	2XT 98**0 501**-591
Polished stainless steel rim	2XT 98**0 500**-521	2XT 98**0 501**-521
Gold plated stainless steel rim	2XT 98**0 500**-531	2XT 98**0 501**-531
White plastic rim	2XT 98**0 500**-541	2XT 98**0 501**-541
Black plastic rim	2XT 98**0 500**-551	2XT 98**0 501**-551

Warm White Light	12V DC	24V DC
Satin stainless steel rim	2XT 98**0 500**-791	2XT 98**0 501**-791
Polished stainless steel rim	2XT 98**0 500**-721	2XT 98**0 501**-721
Gold plated stainless steel rim	2XT 98**0 500**-731	2XT 98**0 501**-731
White plastic rim	2XT 98**0 500**-741	2XT 98**0 501**-741
Black plastic rim	2XT 98**0 500**-751	2XT 98**0 501**-751

LED Slim Line Square Series

Enhanced brightness LED lamps in white and warm white.
Completely sealed and suitable for interior and exterior installations.
Mounting spacer allows lamp to be surface or flush mounted.

Material Description	UV and impact resistant plastic
Installation	Pre-wired with 120mm of cable
Operating Voltage	12V or 24V DC
Power Consumption	0.5W

a = 60.0mm
b = 16.0mm
c = 50.0mm
d = 22.0mm
e = 17.0mm
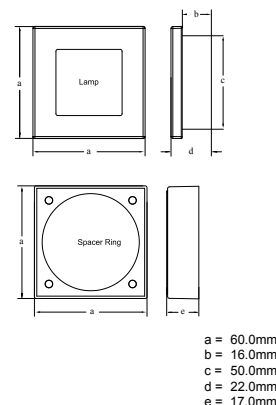
White Light	12V DC	24V DC
Satin Chrome plated rim	2XT 98**0 580**-561	2XT 98**0 581**-561
Chrome plated rim	2XT 98**0 580**-571	2XT 98**0 581**-571
Gold plated rim	2XT 98**0 580**-531	2XT 98**0 581**-531
White plastic rim	2XT 98**0 580**-551	2XT 98**0 581**-551
Black plastic rim	2XT 98**0 580**-541	2XT 98**0 581**-541

| Warm White Light	12V DC	24V DC
Satin Chrome plated rim	2XT 98**0 580**-761	2XT 98**0 581**-761
Chrome plated rim	2XT 98**0 580**-771	2XT 98**0 581**-771
Gold plated rim	2XT 98**0 580**-731	2XT 98**0 581**-731
White plastic rim	2XT 98**0 580**-751	2XT 98**0 581**-751
Black plastic rim	2XT 98**0 580**-741	2XT 98**0 581**-741

Halogen Interior Lamps

8508 Series

Water resistant flush mount halogen lamps suitable for interior or exterior installations.
The reflector uses a 10W bulb and provides the light output equivalent to a 20W bulb. (Bulbs up to 20W can also be used).
Supplied with a silicon seal to prevent the glass lens from vibrating.
Spring clip mounting.

Ø 62
33
Ø 80
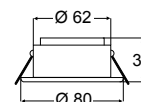
Housing Description	Solid brass housing
	Stainless steel cover ring
Bulb	12V / 10W Halogen G4 included
Degree of Protection	IP 65
Installation	Pre-wired with 150mm of cable
Maximum Output	20W

Chrome housing	White housing
2JA 99**8 508**-001	2JA 99**8 508**-011

6044 Series

Surface mounted halogen lamps with high quality, heat resistant plastic housings. Lamp can be swivelled and turned in all directions. Integrated ON / OFF rocker switch.
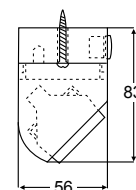
83
56

Housing Description	Plastic
Bulb	Halogen G4 (Not included)
Installation	Pre-wired with 150mm of cable
Maximum Output	20W

White housing	Black housing
2JA 00**6 044**-001	2JA 00**6 044**-021

6047 Series

Halogen spot lamps. Attachment ring allows the lamp to be surface or flush mounted. 14mm installation depth.
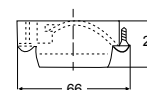
29
66

Housing Description	Plastic
Bulb	Halogen G4 (Not included)
Installation	Pre-wired with 150mm of cable
Maximum Output	10W

White housing	Black housing
2JA 00**6 047**-001	2JA 00**6 047**-021

6046 Series

Halogen spot lamps with adjustable reflector. Attachment ring allows the lamp to be surface or flush mounted.
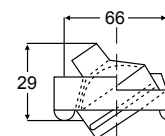
66
29

Housing Description	Plastic
Bulb	Halogen G4 (Not included)
Installation	Pre-wired with 150mm of cable
Maximum Output	20W

White housing	Black housing
2JA 00**6 046**-001	2JA 00**6 046**-021

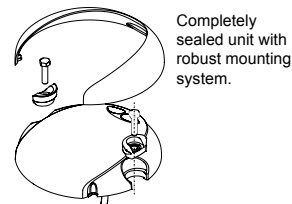## LED Interior / Exterior Lamps

EuroLED Series

Powerful LED marine lamps suitable for interior or exterior installations. Each lamp is completely waterproof, impact resistant and shock resistant, ensuring an ultra long service life. Multivolt™ technology provides consistent illumination and circuit protection from 9-33V DC, even under severe voltage fluctuations.

29.5

110   129.5

Completely sealed unit with robust mounting system.
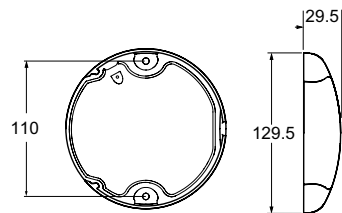
Light Source	Single LED
Installation	Pre-wired with 2.5m of marine cable
Operating Voltage	Multivolt™ 9-33V DC
Protection	Reverse Polarity, Spike Protected
Degree of Protection	IP 6K6 6K7
Mounting	Surface mount
Power Consumption	4W

Single White and Warm White EuroLED lamps without switching.

LED Multivolt

White Light EuroLED Interior Lamps

White Shroud	Black Shroud
2JA 959 820-521	2JA 959 820-511

LED Multivolt

Warm White Light EuroLED Interior Lamps

White Shroud	Black Shroud
2JA 959 820-321	2JA 959 820-301

Single White EuroLED Touch lamps without dimming or momentary switch control. Touch the white pad for ON, black pad for OFF.

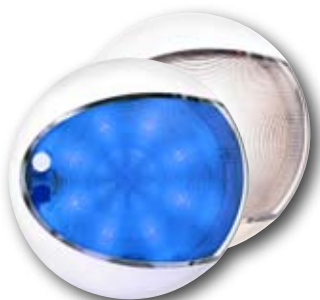**LED** Multivolt

Single White Light EuroLED Touch Lamps

White Shroud	Black Shroud
2JA 959 950-521	2JA 959 950-511

Dual colour EuroLED Touch lamps with dimming and remote momentary switch control. Touch the colour pad for colour ON / OFF, hold finger on the colour pad to cycle through dimming levels.

LED Multivolt

White / Red Light EuroLED Touch Lamps

White Shroud	Black Shroud
2JA 959 950-121	2JA 959 950-111

LED Multivolt

White / Blue Light EuroLED Touch Lamps

White Shroud	Black Shroud
2JA 959 951-121	2JA 959 951-111

Hella marine HELLA

LED Interior Lamps

LED Chart Table Lamps

Power saving and durable LED chart table and general purpose interior lamps featuring Hella marine LED technology.
An ON/OFF switch is built into the head for easy operation.
Hella marine Multivolt™ electronics provide consistent illumination and circuit protection across a range of inputs from 9-31V DC.

Housing Description	UV and impact resistant plastic
	Steel arm
Light Source	Single LED
Installation	Pre-wired with 120mm of cable
Operating Voltage	Multivolt™ 9-31V DC
Power Consumption	< 2W

104
46
150 / 400
36
104

LED *Multivolt*

Flexible LED Interior Lamps with White Light		
Shaft Length	Black Cover	White Cover
150 mm	2JA 34**3 720**-022	2JA 34**3 720**-012
400 mm	2JA 34**3 720**-122	2JA 34**3 720**-112

LED *Multivolt*

Flexible LED Interior Lamps with Red Light		
Shaft Length	Black Cover	White Cover
150 mm	2JA 34**3 720**-052	2JA 34**3 720**-042
400 mm	2JA 34**3 720**-152	2JA 34**3 720**-142

LED Spot Lamps

Power saving, high output white LED spot lamps featuring an innovative ring of ambient LED light.
Multivolt™ technology provides consistent illumination and circuit protection from 9-33V DC, even under severe voltage fluctuations.

Housing Description	UV and impact resistant plastic
Light Source	Single LED
Installation	Pre-wired with 200mm of 3 core cable
Operating Voltage	Multivolt™ 9-31V DC
Power Consumption	White Spot Light < 2.5W
	Ambient Light Ring < 0.5W

b
a
Lamp
d
c

a = 50mm
b = 34mm
c = 41mm
d = 75mm plastic rims
 72mm stainless steel rims

LED *Multivolt*

White LED Spot Light with Blue Ambient Ring	
Satin stainless steel rim	2JA 34**3 980**-162
Polished stainless steel rim	2JA 34**3 980**-152
Gold plated stainless steel rim	2JA 34**3 980**-142
White plastic rim	2JA 34**3 980**-102
Black plastic rim	2JA 34**3 980**-112

LED *Multivolt*

White LED Spot Light with Red Ambient Ring	
Satin stainless steel rim	2JA 34**3 980**-062
Polished stainless steel rim	2JA 34**3 980**-052
Gold plated stainless steel rim	2JA 34**3 980**-042
White plastic rim	2JA 34**3 980**-002
Black plastic rim	2JA 34**3 980**-012

LED *Multivolt*

White LED Spot Light with White Ambient Ring	
Satin stainless steel rim	2JA 34**3 980**-262
Polished stainless steel rim	2JA 34**3 980**-252
Gold plated stainless steel rim	2JA 34**3 980**-242
White plastic rim	2JA 34**3 980**-202
Black plastic rim	2JA 34**3 980**-212

General Interior / Exterior Lamps

DuraLED®

Completely sealed and highly resistant to vibration, saltwater and impact, DuraLed® LED lamps provide impressive light output, energy efficiency and ultra reliability.
MultivoltTM technology provides consistent illumination and circuit protection from 9-33V DC, even under severe voltage fluctuations.
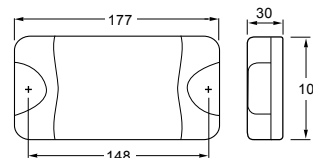
Housing Description	UV resistant, enhanced impact acrylic
Light Source	LED
Installation	Pre-wired with 2.5m of marine cable
Operating Voltage	MultivoltTM 9-33V DC
Power Consumption	Less than 9W

LED *Multivolt*

DuraLed® Lamp - White light output
2JA 95**9 037**-521

8513 Series

Water resistant marine lamps made from tough polycarbonate with a foam rubber gasket. Suitable for interior or exterior installations. Integrated ON/OFF switch and mounting screws included.
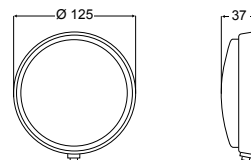
Housing Description	Impact resistant polycarbonate
Bulb	12V / 10W SV8.5 included
Installation	Pre-wired with 70mm of cable
Maximum Output	15W

Chrome housing	White housing
2JA 99**8 513**-011	2JA 99**8 513**-001

8565 Series

These compact round fluorescent lamps are splash proof, energy efficient, and space saving with a long service life.
MultivoltTM electronics provide over-voltage, reverse polarity protection and consistent light output across a range of input voltages from 10-30 DC.
Available with a splash proof switch integrated into the lens.
Compact 7W fluorescent tube produces light output equivalent to a 40W incandescent bulb.
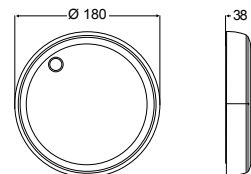
Housing Description	Plastic lens and housing
Light Source	2G7 Fluorescent tube included
Installation	Pre-wired with 120mm of cable
Operating Voltage	Multi-voltage (10-30V DC)
Nominal Power	7W
Power Consumption	12V, 650 mA, 24V 325 mA
Degree of Protection	IP 6K4

| Chrome housing		White housing	
With switch	2JA 99**8 565**-001	With switch	2JA 99**8 565**-011
Without switch	2JA 99**8 565**-021	Without switch	2JA 99**8 565**-031

Chart Reading Lamps

4532 Series

Adjustable lamps for navigation areas. Available in fixed mount and plug-in cigarette lighter mounts.
An ON/OFF switch is integrated into the lamp head.
A red lens is included for optional 'non glaring' night illumination.

295mm Fixed mounting

600mm Fixed mounting

290mm Cigarette lighter plug

Housing Description	Plastic
Bulb	12V / 5W BA9s included
Installation	Pre-wired with 100mm of cable
Maximum Output	6W
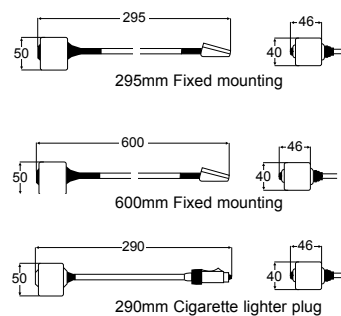
4532 Series	
295mm length	2AB 00**4 532**-171
600mm length	2AB 00**4 532**-161
290mm length	2AB 00**4 532**-022

4813 Series

Lamps for chart table lighting or general interior applications.
Each lamp uses a polished aluminium reflector within a plastic housing and is switched ON and OFF by raising and lowering the lamp head.
Vertical and horizontal joint for rotating and pivoting.

|	
Housing Description	Plastic
Bulb	12V / 5W BA9s included
Installation	Pre-wired with 100mm of cable
Maximum Output	10W

Flush mount   Surface mount
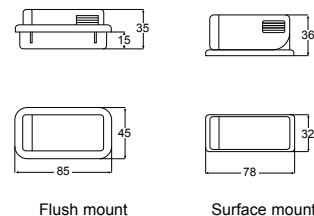
Flush mount	Surface mount includes screws
2AB 00**4 813**-071	2AB 00**4 813**-081

4532 Series

Compact and functional mini halogen spot lamps for navigation areas, berths and applications where adjustable light is required.
A red lens is included for optional 'non glaring' night illumination.
An ON/OFF switch is integrated into the lamp head.
Vertical and horizontal joint for rotating and pivoting.

|	
Housing Description	Plastic
Bulb	12V / 5W BA9s included
Installation	Pre-wired with 100mm of cable
Maximum Output	5W
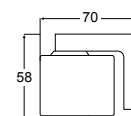
Black housing	White housing
2AB 00**4 532**-101	2AB 00**4 532**-111

Halogen Interior Lamps

8512 Series

Surface mount adjustable halogen lamps with chrome or gold plated brass housings.
Lamps can be turned and pivoted in all directions.
Integrated ON / OFF switch in base. Aluminium reflector.
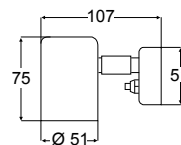
Housing Description	Solid brass
Bulb	12V / 10W Halogen G4 included
Installation	Pre-wired with 120mm of cable
Maximum Output	20W

Chrome plated	Gold plated
2JA 99**8 512**-011	2JA 99**8 512**-001

5759 Series

Surface mount halogen lamps with polished brass housings for a permanent protective finish. ON / OFF switch integrated into lamp head.

Surface mount lamp swivels 90°. Lamp can be rotated up to 356°
Arm mounted lamp moves on a 200mm steel/brass arm.
Includes brass mounting screws.
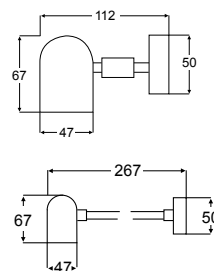
Housing Description	Solid brass
Bulb	Halogen G4 (Not included)
Installation	Pre-wired with 150mm of cable
Maximum Output	20W

Surface mount halogen spot lamp	Arm mount halogen spot lamp
2JA 00**5 759**-011	2JA 00**5 759**-021

6886 Series

Universal halogen wall and ceiling lamp for direct and indirect lighting.
Polished brass housings for a permanent protective finish. ON / OFF switch integrated into lamp base.
Reflector can be swivelled 90° and rotated up to 360°.
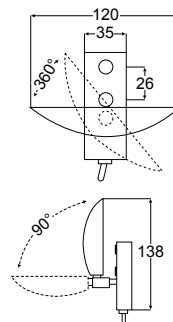
Housing Description	Solid brass
Bulb	Halogen G4 (Not included)
Installation	Pre-wired with 150mm of cable
Maximum Output	20W

Halogen interior lamp
2JA 00**6 886**-001

Hella marine HELLA
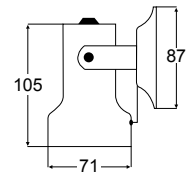
3681 Series Reading Lamps

3681 Series

Aluminium lamp with a lacquer finish for permanent protection.
For 5W, 10W or 21W bulbs. ON/OFF switch integrated into lamp head.
Lamp can be turned and pivoted in all directions.

Housing Description	Aluminium
Bulb	BA15s (Not included)
Installation	Pre-wired with 120mm of cable
Maximum Output	21W

Aluminium housing

2JA 00**3 681**-001

3681 Series

Solid brass lamp with a lacquer finish for permanent protection.
For 5W, 10W or 21W bulbs. ON/OFF switch integrated into lamp head.
Lamp can be turned and pivoted in all directions.
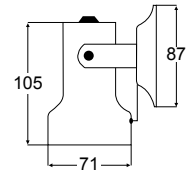
Housing Description	Solid Brass
Bulb	BA15s (Not included)
Installation	Pre-wired with 120mm of cable
Maximum Output	21W

Solid brass housing

2JA 00**3 681**-031

Hella marine HELLA

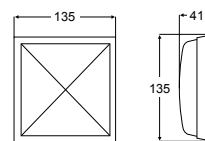## General Interior Lamps

3242 Series

Universal interior lamp for surface mounting.
2 x 10W and 1 x 5W economy circuit, Milky-white lens.

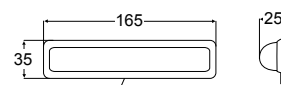|	
Housing Description	Plastic
Bulb	2 x 10W and 1 x 5W SV8.5 (Not included)
Installation	2 flat plug connectors 6.3mm
Maximum Output	2 x 10W

Brass coloured housing
2JA 00**3 242**-121

1330 Series

Surface mounted interior lamps with 2 x 5W bulbs. Suitable for narrow mounting surfaces. Lens milky-white. ON/OFF switch.

Housing Description	Plastic
Bulb	2 x 5W SV8.5 (Not included)
Installation	Screw terminals
Maximum Output	2 x 5W

Ivory housing	Bright chrome housing
2JA 00**1 330**-002	2JA 00**1 330**-012

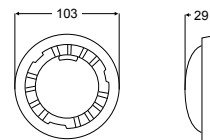### 3231 Series

Universal interior lamps for surface mounting. Lens rotates to switch lamp ON and OFF. Can also be operated by remote switch. Clear lens.

Housing Description	Plastic
Bulb	10W or 15W SV8.5 (Not included)
Installation	3 flat plug connectors 6.3mm
Maximum Output	15W

Clear housing	Brass coloured housing	Polished aluminium housing
2JA 00**3 231**-002	2JA 00**3 231**-022	2JA 00**3 231**-051

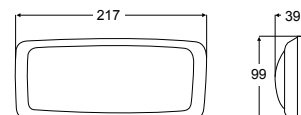### 1331 Series

Sturdy interior lamp with a large light aperture.
2 x 10W, optional 1 x 20W halogen light (12V only). Lens translucent white. Housing rim chrome-plated.

Housing Description	Plastic
Bulb	2JA 001 331-012: 2 x BA15s / 10W
	2JA 001 331-081: 1 x BA9s / 20W
	(Not included)
Installation	3 flat plug connectors 6.3mm
Maximum Output	10W or 20W

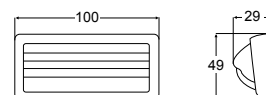| Incandescent bulb	Halogen bulb
2JA 00**1 331**-012	2JA 00**1 331**-081

Halogen Interior Lamps

4192 Series

Ideal berth or chart reading lamps. Shutter tilts to switch lamp ON and OFF. Adjustable light opening.

Housing Description	Plastic
Bulb	10W SV8.5 (Not included)
Installation	2 flat plug connectors 6.3mm
Maximum Output	10W

Clear Lens	Red Lens
Black 2JA 00**4 192**-001	Black 2JA 00**4 192**-041
White 2JA 00**4 192**-071	White 2JA 00**4 192**-081

8516 Series

Halogen spot lamps. Attachment ring allows the lamp to be surface or flush mounted. Can be installed without screws. 55mm mounting hole diameter.
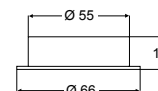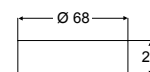
Housing Description	Plastic
Bulb	12V / 10W Halogen G4 included
Installation	Pre-wired with 120mm of cable
Maximum Output	10W

White housing	Chrome housing	Brass coloured housing
2JA 99**8 516**-001	2JA 99**8 516**-011	2JA 99**8 516**-021

8516 Series - Surface mount

Surface mount halogen spot lamps. Fixed aluminium reflector. Includes attachment ring and mounting screws.
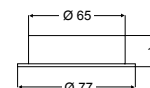
Housing Description	Plastic
Bulb	12V / 10W Halogen G4 included
Installation	Pre-wired with 120mm of cable
Maximum Output	10W

White housing	Chrome housing	Brass coloured housing
2JA 99**8 516**-031	2JA 99**8 516**-041	2JA 99**8 516**-051

8527 Series - With switch

High performance halogen spot lamp with integrated switch. Switches ON and OFF by rotating the rim. Includes mounting screws.

Housing Description	Plastic
Bulb	12V / 10W Halogen G4 included
Installation	Pre-wired with 120mm of cable
Maximum Output	10W

| White housing	Chrome housing	Brass coloured housing
2JA 99**8 527**-001	2JA 99**8 527**-011	2JA 99**8 527**-021

Fluorescent Lamps

Transistorized Fluorescent Tube Lamps

Modern, attractive and power saving fluorescent lights for a variety of interior applications. The combination of advanced electronics and efficient compact fluorescent tubes ensures lower power consumption than incandescent lamps for the same light output.

Further benefits include:
- Flicker free noiseless operation
- Homogeneous spread of light
- Vibration and shock resistance
- Long service life
- Reliable ignition even at extremely low temperatures.
- Prevention of early blackening of the fluorescent tube.
- Reliable lighting for the complete service life of the tube.
- Reverse polarity protection
- ON / OFF switch integrated into housing
- Interference suppressed to VDE 0879
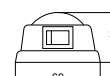
7372 Series

Housing Description	Impact resistant plastic
Light Source	TL8 Fluorescent tube included
Installation	6.3mm flat-plug connectors

Length 440mm		Light output comparison
12V / 8W	2JA 00**7 372**-002	Compact 8W fluorescent tube produces light output equivalent to a 40W incandescent bulb.
24V / 8W	2JA 00**7 372**-012	
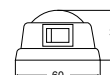
7373 Series

Housing Description	Impact resistant plastic
Light Source	2G7 Compact fluorescent tube included
Installation	6.3mm flat-plug connectors

Length 255mm		Light output comparison
12V / 7W	2JA 00**7 373**-002	Compact 7W fluorescent tube produces light output equivalent to a 40W incandescent bulb.
24V / 7W	2JA 00**7 373**-012	

Length 285mm		Light output comparison
12V / 9W	2JA 00**7 373**-032	Compact 9W fluorescent tube produces light output equivalent to a 60W incandescent bulb.
24V / 9W	2JA 00**7 373**-042	

Length 355mm		Light output comparison
12V / 11W	2JA 00**7 373**-062	Compact 11W fluorescent tube produces light output equivalent to a 75W incandescent bulb.
24V / 11W	2JA 00**7 373**-072	

Accessories

Hella marine HELLA®

Vision and Innovation

Hella marine HELLA

Contour Series Switch Panels

4 Way and 6 Way Compact Switch Panels

Splash proof switch panels protected with neoprene rubber boots.
Fuse is behind panel.

Features:
- Sprayproof inline fuse holders with fuses
- Gasket, screws and label set

Dimensions   95 x 107 x 55mm (H x W x D)

Housing Description   Impact resistant plastic
Degree of Protection   IP X5
Switches   4 or 6 ON/OFF rocker switches
Maximum Load   12V / 20A

Compact Switch Panels		
	Grey panel	White panel
4 way	8HG 99**8 514**-041	8HG 99**8 514**-061
6 way	8HG 99**8 514**-051	8HG 99**8 514**-071

Compact 6 Way Switch Panels

Attractive splash proof switch panels protected with neoprene rubber boots.
Red and green LED backlit labels.

Features:
- Green LED backlit labels.
- Red LED light indicates systems on.
- Removable cover plate over switches conceals screws.
- Label set and caps to cover left side screws.

Dimensions   158 x 112 x 65mm (H x W x D)

Housing Description   Impact resistant plastic
Degree of Protection   IP X5
Switches   6 ON/OFF rocker switches
Switch Current Rating   20A DC, 10A AC.
Maximum Load   12V / 20A

Compact Switch Panels	
Grey	8HG 99**8 514**-001
White	8HG 99**8 514**-081

Spare Parts	
ON/OFF rocker switches	9MK 99**8 003**-001

Contour Series Switch Panels with Circuit Breakers

4 Way and 8 Way 'Contour' Switch Panels with Circuit Breakers

Hella marine 'Contour' switch panels offer modern design with integrated circuit breakers and LED backlighting.
The grey impact resistant fascia is complimented by a grey marine grade aluminium powder coated base plate.
All panels are pre-wired, include mounting screws and are suitable for 12V or 24V systems.

Features:
- Airpax circuit breakers.
- Stylish impact resistant plastic facia covering circuit breakers.
- Powder coated aluminium base plate.
- Green LED backlit labels.
- Red LED light indicates systems on.
- Bus bar.
- Screws and label set.
- Pre-wired.

4 Way Switch Panel with Circuit Breakers

Configuration	1 x 5A / 2 x 10A / 1 x 15A
Dimensions	115 x 127 x 65mm (H x W x D)

Switch Panels with Circuit Breakers	
4 way	8HG 99**8 514**-011

8 Way Switch Panel with Circuit Breakers

Configuration	2 x 5A / 2 x 10A / 3 x 15A / 1 x 20A
Dimensions	200 x 127 x 65mm (H x W x D)
	115 x 239 x 65mm (H x W x D)

Switch Panels with Circuit Breakers	
8 way vertical	8HG 99**8 514**-021
8 way horizontal	8HG 99**8 514**-031

Micro Series Switch Panels

Micro Switch Panels

Hella marine 'Micro' switch panel modules can be added together
horizontally or vertically giving numerous installation options.
Each module also has red and green LED backlighting.
Circular labels allow vertical, horizontal, left or right mounting.

Features:
- Switches protected by quality neoprene rubber boots.
- Green LED backlit labels.
- Red LED light indicates systems on.
- Gasket and label set. (9XT 99**8 010**-001 comes standard)

Dimensions	86 x 58 x 28mm (H x W x D)

Housing	Impact resistant plastic
Degree of Protection	IP X5
Switches	Rocker, momentary or 3 way ON/OFF/ON
Maximum Load	12V / 20A

Micro Switch Panels	
2 x ON/OFF rocker switches	8HG 99**8 514**-091
1 x ON/OFF rocker switch, 1 x 3 way momentary switch	8HG 99**8 514**-111
1 x ON/OFF rocker switch, 1 x ON/OFF/ON switch	8HG 99**8 514**-131

Bilge Alarm

8HG 99**8 514**-171

Bilge alarm and bilge pump control panel includes 1 x ON/OFF/ON switch for auto
manual control, plus 1 x warning light and alarm for high water level alarm.
Same features as modules above.

System Indicator panel

8HG 99**8 514**-151

2 x LED indicators show systems in operation.
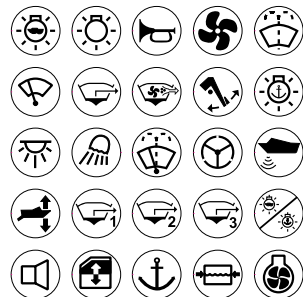Same features as modules above.

Spare Label Sets

9XT 99**8 010**-001

ACCESSORIES	AERATOR	ANCHOR LIGHT	AUTOPILOT	BAIT TANK PUMP
BILGE PUMP	BLOWER	CABIN LIGHTS	COCKPIT LIGHTS	DC OUTLETS
DECK WASH	DEPTH SOUNDER	FRESH WATER PUMP	FRIDGE	GPS
HORN	INST. LIGHTS	INSTRUMENTS	NAVIGATION LIGHTS	SALT WATER PUMP
SPARE	SPOT LIGHTS	STEREO	STERN LIGHT	TRIM TABS
VHF	WINCH	WIPER	NAV LT ANC LT	NAV LT ANC LT

9XT 99**8 010**-011

|				
HOLDING TANK PUMP	UP WINCH DOWN	DECK FLOODLTS FWD	DECK FLOODLTS AFT	NUC LIGHTS
BILGE PUMP AFT	BILGE PUMP FORWARD	BILGE PUMP MID	BILGE PUMP STBD	BILGE PUMP PORT
BOARDING LIGHTS	ENGINE ROOM LIGHTS	NAV LTS PORT	NAV LTS STBD	PANEL LIGHTS
COURTESY LIGHTS	AFT DECK LIGHT	FLOOD LIGHTS	RADIO	LAZARETTE LIGHT
SEARCH LIGHT	WINDOW WASHERS	STEAMING LIGHT	BILGE ALARM	GREY WATER PUMP
MID WIPER	PORT WIPER	STARBOARD WIPER	DAVIT	MUTE

9XT 99**8 010**-021

Fans

2 Speed "Turbo" Fans

Universal fans from the versatile and well respected "Turbo" range.
Can be turned and pivoted in all directions, and locked in position.

- Quality German motor provides very quiet operation.
- 150mm diameter fan blade with guard.
- High air moving capacity with low power consumption.
- Two speed switch in front of the blade guard.
- Side, upright or pendant mounting.

Material Description	Impact resistant plastic
Switch	Integrated 2 stage rotary
Output	Speed 1: 70 litres / sec.
	Speed 2: 95 litres / sec.
Power Consumption	6.5W
Installation	Pre-wired with 140mm of cable
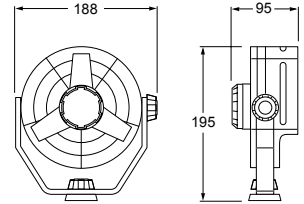
Fan "Turbo"	
12V Black	8EV 00**3 361**-002
24V Black	8EV 00**3 361**-012
12V White	8EV 00**3 361**-022

188   95
195

Single Speed "Jet" Fans

Economy fans with similar styling to the popular "Turbo" models. Can
be turned and pivoted in all directions, and locked in position.

- 130mm diameter fan blade with guard.
- Switch in front of the blade guard.
- Side, upright or pendant mounting.

Material Description	Impact resistant plastic
Switch	ON/OFF switch
Output	40 litres / sec.
Power Consumption	3.5W
Installation	Pre-wired with 140mm of cable
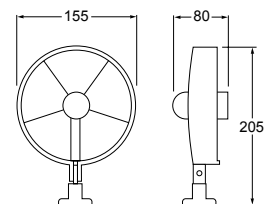
Fan "Jet"	
12V Black	8EV 00**6 239**-002
12V White	8EV 00**6 239**-012

155   80
205

Battery Switches

275 Amp Battery Master Switch

Contour Lock system with removable plates for connection from all sides. This allows the switch to be a stand alone unit or locked together with other switches.
The control knob cannot be removed whilst in an ON or OFF position, however it can be removed by switching to an anti-clockwise 45° position.
Suitable for surface or recess mounting by cutting a 52mm diameter hole.

Material Description	Impact resistant plastic
	Tin plated copper studs and nuts
Termination Stud Size	2 x 10mm (3/4")
Operation	ON / OFF
Degree of Protection	IP 56
Max. Load 12 / 24V DC	Continuous 275 Amps
	Intermittent 455 Amps (5 minutes)
	Cranking 1250 Amps (10 seconds)
Max. voltage	48V DC
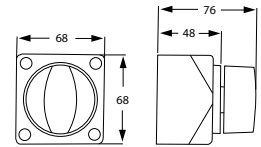
275 Amp Battery Master Switch

6EK 99**8 540**-001   Spare label set 9XT 99**8 011**-001

600 Amp Battery Master Switch

Contour Lock system with removable plates for connection from all sides. This allows the switch to be a stand alone unit or locked together with battery distribution modules.
The control knob cannot be removed whilst in an ON or OFF position, however it can be removed by switching to an anti-clockwise 45° position. Switch can also be padlocked. Suitable for surface or recess mounting by cutting an 85mm diameter hole.

Material Description	Impact resistant plastic
	Tin plated copper studs and nuts
Termination Stud Size	2 x 12mm (1/2")
Operation	ON / OFF
Degree of Protection	IP 56
Max. Load 12 / 24V DC	Continuous 600 Amps
	Intermittent 800 Amps (5 minutes)
	Cranking 2500 Amps (10 seconds)
Max. Voltage	48V DC
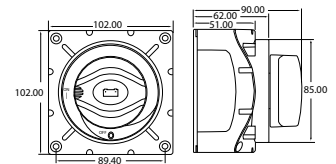
600 Amp Battery Master Switch

6EK 99**8 540**-061   Spare label set 9XT 99**8 011**-001

350 Amp Battery Selector Switch

Contour Lock system with removable plates for connection from all sides. This allows the switch to be a stand alone unit or locked together with battery distribution modules
Necessary for on board systems fed from 2 or more batteries and whose supply comes from more than 1 generator.
Rotary switch in 4 switch positions of battery 1-2-Both-OFF. Switch can also be padlocked.
Suitable for surface or recess mounting by cutting an 85mm diameter hole.

Material Description	Impact resistant plastic
	Tin plated copper studs and nuts
Termination Stud Size	3 x 10mm (3/4")
Operation	1-2-Both-OFF
Degree of Protection	IP 56
Max. Load 12 / 24V DC	Continuous 350 Amps - B1 or B2
	Continuous 500 Amps - B1 and B2
	Intermittent 500 Amps (5 minutes)
	Cranking 1500 Amps (10 seconds)
Max. Voltage	48V DC
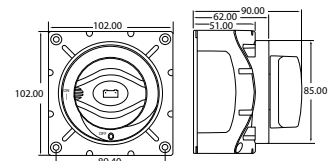
**350 Amp Battery Selection Switch**

6EB 99**8 540**-201

Battery Switches and Battery Charger

50 Amp Battery Master Switch

Positive or negative cable can be switched as required. Key can be
removed in the OFF position, current interrupted. Saltwater resistant.

Housing Description	Impact resistant plastic
Cable Connection	2 screw terminals, M10
Degree of Protection	IP X4
Max. Load 12 / 24V DC	Continuous 50 Amps
	Cranking 1000 Amps 12V (10 seconds)
	Cranking 500 Amps 24V (10 seconds)
	(compliant with VDA 72750)
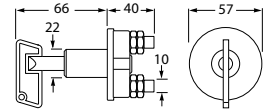
50 Amp Battery Master Switch

6EK 00**2 843**-011   Spare Key 9SL 70**6 729**-011

100 Amp Battery Master Switch

Heavy duty switch for high loads.
Key can be removed in the OFF position, current interrupted.
Positive or negative cable can be switched as required.

Housing Description	Impact resistant plastic
	Steel key and mounting plate
Cable Connection	2 screw terminals, M10
Degree of Protection	IP X4
Max. Load 12 / 24V DC	Continuous 100 Amps
	Cranking 5000 Amps 12V (10 seconds)
	Cranking 2500 Amps 24V (10 seconds)
	(compliant with VDA 72750)
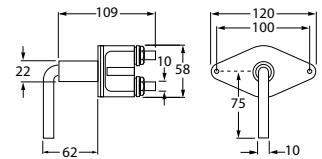
100 Amp Battery Master Switch

6EK 00**1 559**-001

10 Amp Automatic 12V Battery Charger

$C\epsilon$

Intelligent charger offers trickle charging and charging of completely discharged batteries
Also suitable for gel batteries
Quick charging function (from 7A to 10A)
LED status indicator

Housing Description	Impact resistant plastic housing
Protection	Over-charge and reverse polarity protected
Charging	Charging current 7/10A
	Charging cut off at 14.3V, Floating charge at 13.8V max. 1A

100 Amp Automatic 12V Battery Charger

8ES 41**7 417**-041

Spare label sets for battery master switches

9XT 99**8 011**-001

HOUSE | PORT START | STBD START | EMERG PARALLEL
INVERTER | BOW THRUSTER | START | RADIO
GENSET | WINCH | 1 | 2
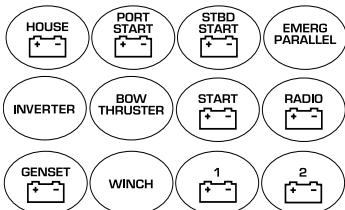
Labels for 6EK 998 540-001

All master switches come standard with the battery symbol label.
For installations where multiple switches are used it will be necessary
to label the switches for different applications.

Waterproof Plugs and Sockets

Water Resistant Plugs and Sockets

Chrome plated brass plugs and sockets for exterior or interior installations.
Socket includes plastic cap.
Plug suitable for cable up to 6.5mm diameter.
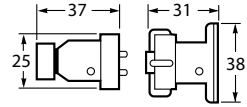
Material Description	Chrome plated brass housings. Brass contacts
Maximum Load	22A at 12V
Installation	Screw terminals

Water Resistant Plugs and Sockets

2 Pin	8JA 00**2 620**-801
3 Pin	8JA 00**2 807**-801
4 Pin	8JA 00**2 957**-801

Chrome Plated Brass Deck Glands

Ensures waterproof cable entry.

Cables up to 8mm diameter	9NM 00**4 208**-001	18mm high x 32mm base diameter
Cables up to 12mm diameter	9NM 00**4 209**-001	18mm high x 38mm base diameter

Waterproof Plugs and Sockets

Watertight plastic plugs and sockets for exterior or interior installations.
Socket includes plastic cap.
Plug suitable for cable up to 8.0mm diameter.
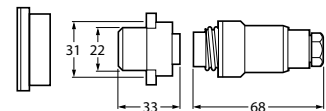
Material Description	Impact resistant plastic housing
	Silver plated contacts
Degree of Protection	IP 67
Maximum Load	2, 3, 4 pin: 16A at 12V
	7 pin: 10A at 12V
Installation	2, 3, 4 pin: Screw terminals
	7 pin: Solder terminals
Mounting	2, 3, 4 pin: Flush mounting
	7 pin: Surface mounting

Waterproof Plugs and Sockets

2 Pin	8JA 00**6 801**-801
3 Pin	8JA 00**6 803**-801
4 Pin	8JA 00**6 805**-801
7 Pin	8JA 00**6 807**-801

Surface Mounting Ring

For surface mounting of the socket.
Includes stainless steel screws and rubber gasket.

8XT 006 798-001

Hella marine HELLA

Light Dimmer

2 Group Light Dimmer

Features:
- Precise dimming control for 1 or 2 light groups
- Voltage regulation & 'soft-start' bulb protection
- Low voltage battery protection
- 12V and 24V DC

The Hella marine 2 Group Light Dimmer provides precise dimming control for one or two separate light groups, and sophisticated voltage regulation with a 'soft-start' feature to lengthen the life of a filament bulbs. The dimmer also provides low voltage protection against deep battery discharge.

When batteries are charged voltage can rise to 14.4V on 12V systems or 28.8V on 24V systems, this can shorten the life of bulbs. The 2 Group Dimmer increases bulb life through sophisticated internal voltage regulation, ensuring the lighting circuit voltage does not rise above 12V or 24V. As halogen bulbs also have a high inrush current on start up, the 2 Group Dimmer features 'soft-start' to further lengthen bulb life.

The dimmers low voltage protection also protects against deep battery discharge. Lights will turn off automatically when battery voltage is lower than 9V on a 12V system or lower than 18V on a 24V system. Lights can be switched on again when the battery is charged and reaches 12V or 24V respectively.

Max. Load	200W at 12V and 400W at 24V
Max. Load Per group	100W at 12V and 200W at 24V
Input Voltage Range	8 - 30V DC
System Voltage	12V or 24V DC
Number of Groups	2
Switches Per Group	Unlimited
Switch Type	Momentary normally open
Weight	140 grams
Protections	Overload, Temperature, Low voltage
Fuse	2 x 10A
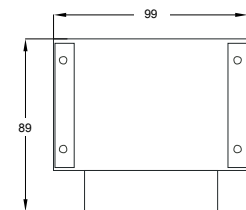
2 Group Light Dimmer

5XA 99**8 572**-001

Bilge Pumps

Bilge Pumps

Hella marine bilge pumps are completely submersible, vibration resistant and maintenance free.
Removable base plate allows cleaning of the intake chamber and also serves as a mounting plate.

For reliable operation and safety Hella marine recommends the following rules be followed:

- Use to pump bilge water only.
- Do not leave permanently submerged in water contaminated with oils or cleaning products.
- Test regularly.
- Clean the strainer regularly.
- Do not use with unreliable float switches.
- Do not use to compensate for a leaking vessel.
- Do not use as continuous duty live bait tank pumps.

8TW 005 342-001

Pumping Capacity	1500 l/h / 400 GPH
Voltage	12V DC
Delivery Head	4.2m
Power Consumption	3.5A
Outlet Hose Internal Diameter	13.5mm
Outlet Hose External Diameter	20.0mm
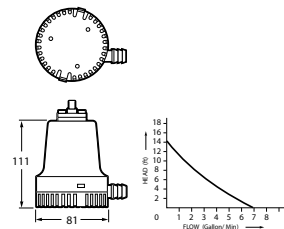
8TW 005 343-001

Pumping Capacity	2300 l/h / 600 GPH
Voltage	12V DC
Delivery Head	5m
Power Consumption	5A
Outlet Hose Internal Diameter	13.5mm
Outlet Hose External Diameter	20.0mm
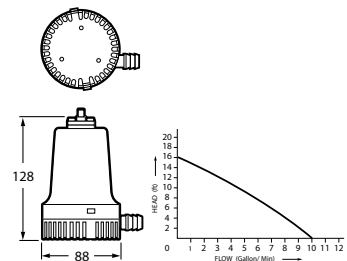
8TW 005 344-001

Pumping Capacity	6500 l/h / 1750 GPH
Voltage	12V DC
Delivery Head	4m
Power Consumption	10A
Outlet Hose Internal Diameter	25.0mm
Outlet Hose External Diameter	30.0mm
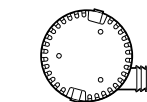
8TW 005 344-011

Pumping Capacity	6500 l/h / 1750 GPH
Delivery Head	4m
Voltage	24V DC
Power Consumption	5A
Outlet Hose Internal Diameter	25.0mm
Outlet Hose External Diameter	30.0mm
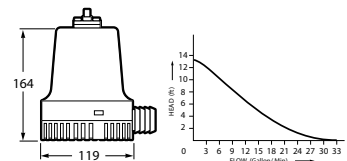
Replacement Bulbs

Hella marine **HELLA**®

Vision and Innovation

Introduction

Hella marine bulbs are top quality products sourced from leading international bulb manufacturers.

Incandescent Bulbs

Incandescent bulbs, also referred to as 'standard' bulbs, produce light by heating a filament until it is white hot. Incandescent bulbs become progressively dimmer over the course of their service life, because heating the filament makes it slowly burn away, with residue settling on the inside of the glass envelope.

Halogen Bulbs

Halogen bulbs contain a gas mixture which consists of halogen compounds (usually compounds of iodine or bromine). Light is produced in much the same way as an incandescent bulb. However, when particles burn off the filament, they are returned by a chemical process involving the halogen in the bulb. This means that the light produced by a halogen bulb is relatively consistent over the course of the bulb's entire service life.

Xenon Gas Discharge (HID) Bulbs

Xenon bulbs use an electric current arc passed through Xenon gas, rather than a filament, to produce light.
This method requires minimal electric current draw compared to filament lighting, and its output is comparable to daylight.
As the human eye has evolved to see in daylight, Xenon lighting causes less eye strain than other bulb types, making it a more convenient and safer night lighting option. Xenon bulbs increase reflections on road signs and markings.

Advantages of Gas Discharge (HID) Lighting

HID lighting is highly energy efficient producing approximately 90 lumens per watt compared to a quartz halogen lamp of approximately 25 lumens per watt.

• Light colour very similar to daylight – reduces eye strain.
• Steady brightness levels even if power supply varies.
• Impact and vibration resistant light arc ensures a bulb service life five times longer than standard bulbs.

Light Output

| Operating Voltage %	Light Output %	
85	53	Light output for a filament light source is dependent on the voltage. Low voltage causes low output and shorter life, especially for halogen bulbs, because regeneration does not occur. Over voltage causes excessive tungsten erosion and the filament may prematurely break due to the filament being closer to its melting point.
90	67	
95	83	
100	100	

(Based on a mean operating voltage of 100% = 13.5V or 27V)

Bulbs for Deck Floodlights and Interior Lights
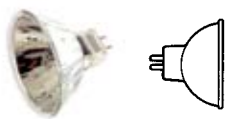
Deck Floodlight Bulb. GX5.3s Base

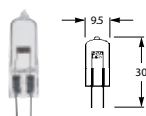| Part Number	Voltage	Wattage	Base
8GH 998 529-001	12	20	GX5.3
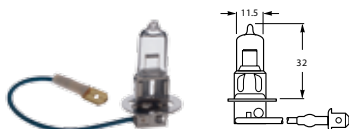
Deck Floodlight and Search Light Bulbs. PK22s 9s Base. H3

Part Number	Voltage	Wattage	Base	ECE Category
8GH 002 090-131	12	55	PK22s	H3
8GH 002 090-251	24	70	PK22s	H3
8GH 002 090-151	12	100	PK22s	H3
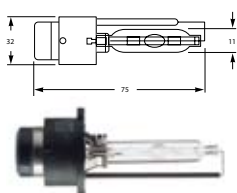
Deck Floodlight and Search Light Gas Discharge (HID) Bulbs. D2S

Part Number	Voltage	Wattage	Base	ECE Category
8GH 002 091-001	12/24	35	P32d-2	D2S

Halogen Interior Lamp Bulbs. G4 Base

Part Number	Voltage	Wattage	Base
8GH 005 758-141	12	5	G4
8GH 005 758-131	12	10	G4
8GH 005 758-121	12	20	G4
8GH 005 758-241	24	20	G4
8GH 005 758-251	24	10	G4
8GH 005 758-261	28	10	G4
8GH 005 758-271	28	20	G4
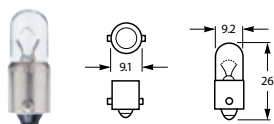
Halogen Interior Lamp Bulbs. BA9s Base

Part Number	Voltage	Wattage	Base	ECE Category
8GH 002 473-132	12	20	BA9s	
8GH 002 473-151	12	5	BA9s	
8GP 002 067-121	12	4	BA9s	T 4 W
8GP 002 067-241	24	4	BA9s	T 4 W
8GP 007 676-122	12	6	BA9s	
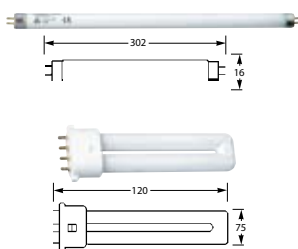
Compact Fluorescent Tubes. TL8 and 2G7 Base

Part Number	Wattage	Base	Luminous Flux
8GS 861 953-001	8	TL8	400 lm
8GS 861 955-001	7	2G7	400 lm
8GS 861 955-011	9	2G7	600 lm
8GS 861 955-021	11	2G7	900 lm

Hella marine HELLA

Bulbs for Navigation Lamps
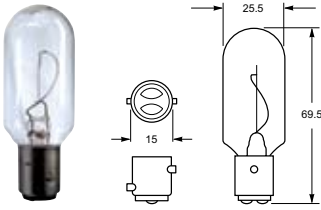
Navigation Lamp Bulbs. BAY15d Base

Part Number	Voltage	Wattage	Base
8GA 003 488-121	12	>10/12	BAY15d
8GA 003 488-301	12	25/30	BAY15d
8GA 003 488-131	24	>10/12	BAY15d
8GA 003 488-311	24	25/30	BAY15d

Navigation Lamp and Interior Lamp Bulbs. BA15s Base
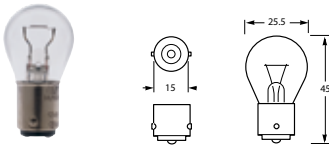
Part Number	Voltage	Wattage	Base	ECE Category
8GA 002 071-121	12	5	BA15s	R 5W
8GA 002 071-241	24	5	BA15s	R 5W
8GA 002 071-131	12	10	BA15s	R 10W
8GA 002 071-251	24	10	BA15s	R 10W
8GA 002 071-271	12	21/5	BA15s	P 21/5W
8GA 002 070-121	12	15	BA15s	F
8GA 002 072-121	12	18	BA15s	R
8GA 002 072-241	24	18	BA15s	R
8GA 002 073-121	12	21	BA15s	P 21W
8GA 002 073-241	24	21	BA15s	P 21W

Navigation Lamp and Interior Lamp Bulbs. SV8.5 Base
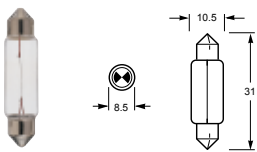
Part Number	Voltage	Wattage	Base	ECE Category
8GM 002 091-131	12	10	SV8.5	K
8GM 002 091-251	24	10	SV8.5	K
8GM 993 406-001	12	10	SV8.5	
8GM 002 092-121	12	5	SV8.5	C 5 W
8GM 002 092-241	24	5	SV8.5	C 5 W

Index by Product Description

Hella marine
Vision and Innovation

Hella marine Worldwide Headquarters - New Zealand

81 / 83 Ben Lomond Crescent, Pakuranga, Auckland
Phone   +64 9 577 0392
Fax   +64 9 576 2476
Email   info@hellamarine.com

Hella marine Europe Office - Austria

Fabriksgasse 2, A-7503 Grosspetersdorf
Phone   +43 3362 / 9001-1173
Fax   +43 3362 / 9001-1118
Email   markus.fruehwirth@hella.com

Hella marine Australia

54 Southern Road
Mentone, Victoria 3194
Phone   +61 3 9581 9299
Fax   +61 3 9583 1838
Email   custservice@ha.hella.com

Hella marine Austria

Fabriksgasse 2
A-7503 Grosspetersdorf
Phone   +43 3362 / 9001-1173
Fax   +43 3362 / 9001-1118
Email   markus.fruehwirth@hella.com

Hella marine Belgium

Industrieweg 1
2630 Aartselaar
Phone   +32 3 887 97 21
Fax   +32 3 887 56 18
Email   be.info@hella.com

Hella marine Czech Republic

Revolucni 785
Zruc Nad Sazavou
Phone   +42 / 0327531152
Fax   +42 / 0327531152
Email   hella.cz@pvtnet.cz

Hella marine Denmark

Aabenraavej 13
6340 Krusa
Phone   +45 / 73303600
Fax   +45 / 73303640
Email   povl.erik.moeller@hella.dk

Hella marine Finland
OY Maritim AB
Veneentekijäntie 1
00210 Helsinki
Phone   +358 / 9681631
Fax   +358 / 96927917
Email   erik.lindgren@maritim.fi

Hella marine France

11, avenue Albert Einstein
Le Blanc - Mesnil Cedex, 93151
Phone   +33 (0)1 49 39 59 59
Fax   +33 (0)1 49 39 59 06
Email   infofrance@hella.com

Hella marine Germany
Bukh Bremen GmbH
Kornstraße 243
28201 Bremen
Phone   +49 (0) 421 535070
Fax   +49 (0) 421 556051
Email   info@bukh-bremen.de

Hella marine Greece

246 Syngou AV. & Davaki Str.
Kallithea-Athen, 17672
Phone   +30 / 2109531690
Fax   +30 / 2109531697
Email   v.karountzou@electra-hellas.gr

Hella marine Hungary

Forgach u. 17.
1139 Budapest
Phone   +36 / 1236 6060
Fax   +36 / 1239 1602
Email   sandor.huve@hella.com

Hella marine Iceland
R. Sigmundsson ehf.
Klettagardar 25
104 Reykjavik
Phone   +354 / 5805312
Fax   +354 / 5805301
Email   stefan@rs.is

Hella marine Ireland

Woodford Business Park Santry
Dublin 17
Phone   +35 3 1862-0000
Fax   +35 3 1862-1133
Email   irsales@hella.ie

Hella marine Italy

Via Piemonte 17
20098 S.Giuliano Milanese (MI)
Phone   +39 / 02988351
Fax   +39 / 0298835839
Email   Davide.Rossi@hella.com

Hella marine Malta
Strand Marine & Auto Systems Limited
Valdor Buildings, Triq Is-Sebh
9055 Qormi QRM
Phone   +356 / 21472336
Fax   +356 / 21472338
Email   info@strandmarinemalta.com

Hella marine Middle East
Alshaya Marine
Shuwaikh, City Centre
Kaifan 71953, Kuwait

Phone   +965 4812121
Email   info@alshayamarine.com

Hella marine Netherlands

Celsiusbaan 2
3430 BJ Nieuwegein
Phone   +31 30609 5630
Fax   +31 30603 9860
Email   bastiaan.wesselink@hella.com

Hella marine New Zealand

81 / 83 Ben Lomond Crescent
Pakuranga, Auckland
Phone   +64 9 577 0392
Fax   +64 9 576 2476
Email   info@hellamarine.com

Hella marine Norway

Industriveien 26
1483 Skytta
Phone   +47 / 67066000
Fax   +47 / 67066010
Email   terje.hagen@hellanor.no

Hella marine Poland

Ul. Muszkieterow 15A
02-273 Warszawa
Phone   +48 / 228686688
Fax   +48 / 228686694
Email   marcin.fisiak@hella.com

Hella marine Portugal
SailingFoz
Comércio de Artigos Naúticos, Lda.
Travessa das Laranjeiras, 34
4150 Foz do Douro
Phone   +35 122 617 9936
Fax   +35 122 610 3716
Email   sailingfoz@sailingfoz.pt

Hella marine Russia
Technomarine Group
Sofiyskaya str. 14
St. Petersburg 192236 RUSSIA
Phone   +7 812 449-4077
Fax   +7 812 718-8261
Email   parts@technomarin.ru

Hella marine Singapore

2 International Business Park #02-15
The Strategy 609930
Phone   +65 6854 7300
Fax   +65 6854 7302
Email   singapore@hella.com

Hella marine Slovenija

Letaliska C. 17
1001 Ljubljana
Phone   +386 / 15203260
Fax   +386 / 15203408
Email   breda.krsmanc@hella.com

Hella marine South Africa
C-Dynamics cc
1 Elgin Road Milnerton
Cape Town 7441
Phone   +27 21 555-3232
Fax   +27 21 555-3230
Email   info@c-dynamics.co.za

Hella marine Spain
IMNASA Marine Products
Ctra. Fornells, 13 (Pgo. Les Ferreries)
17457 Campllong Girona
Phone   +34 902 300 214
Fax   +34 902 300 215
Email   imnasa@imnasa.com

Hella marine Sweden
KG Knutsson AB
Hammarbacken 8
19181 Sollentuna
Phone   +46 / 8923000
Fax   +46 / 8923062
Email   Billy.Wiking@kgk.se

Hella marine Switzerland
Wälchli + Bollier AG
Schlosserstraße 5
8180 Bülach
Phone   +41 / 18727575
Fax   +41 / 18727508
Email   info.wbb@metraux.com

Hella marine Turkey
Marintek Deniz ve Yat Malzemeleri
Unalan cad. 9/1 - Uskudar
34700 Istanbul
Phone   +90 / 2163171010
Fax   +90 / 2163175656
Email   murat@marintek.com.tr

Hella marine United Kingdom

Wildmere Industrial Estate
Banbury, Oxfordshire, England
Phone   +44 (0) 1295 273233
Fax   +44 (0) 1295 225486
Email   hella.ltd@hella.com

Hella marine USA

201 Kelly Drive
Peachtree City, GA 30269
Phone   +1 770 631-7500
Fax   +1 770 631-7560
Email   SOE.sales@hinc.hella.com

www.hellamarine.com

S-HMCATINT08ENG