

Vision and Innovation

English Catalogue



World leading LED technology. Power saving and ultra durable.

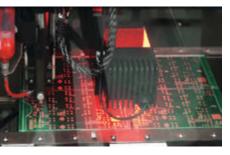
www.hellamarine.com



Hella marine, Auckland, New Zealand.











Welcome to the Hella marine catalogue, your complete guide to advanced lighting solutions engineered for energy efficiency, safety and reliability.

Founded in 1925 by HELLA in Lippstadt, Germany, Hella marine is now headquartered in Auckland, New Zealand, a country with a rich maritime history, world class boat building and yacht racing success.

Combining this passion for the Ocean with decades of LED product design expertise Hella marine lamps are 'Fit and Forget' by design, offering complete piece of mind and enduring Safety at Sea.

Through ongoing R&D, innovative design and use of high quality materials Hella marine continues to set benchmarks for extremely reliable and highly efficient products.

Today Hella marine is a globally recognised and trusted brand with LED navigation and high performance lighting systems available in over 60 countries through the global HELLA network and specialist marine distributors.



Hella marine is certified to the international quality standard ISO 9001:2008 for:

'The Design and Manufacture of Marine Navigation Lighting, General Lighting, LED Based Lighting and Associated Electronic Control Units.

The Design and Manufacture of Automotive Lighting and Signalling Equipment, General Lighting, Optical Products and Plastic Components.'

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The Hella marine Advantage

At sea, power is often a scarce resource. Highly efficient and durable LED lighting has a substantial role to play in conserving energy and enhancing a vessel without sacrificing functionality or compromising safety.

Our vision is to provide world leading products that set benchmarks for quality, reliability, safety and energy efficiency while satisfying customer expectations for outstanding service and support. Hella marine 'Fit and Forget' LED lighting is firmly established as the solution of choice that meets long term reliability and economic considerations for astute owners and operators.



Class Leading Efficiency

Combining efficient LED sources with advanced optic technology, Hella marine LED products deliver more light output per watt than incandescent based lamps with significant energy savings.

Ultra low heat signatures reduce heat onboard and prevent damage to surrounding materials.



IP 67 - Completely Sealed

Preventing moisture from corroding internal LED electronics is vital for long term durability in the harsh marine environment.

Hella marine products are completely sealed and purpose designed for interior or exterior use, wet or dry.



Heavy Duty Grilamid Lens

Many Hella marine LED products utilise Grilamid, a high performance polyamide manufactured in Switzerland, as a heavy duty lens material. Grilamid is a revolutionary transparent plastic with exceptionally high impact strength and resistance to UV and chemical damage.



Electromagnetic Compatibility (EMC)

All Hella marine products are designed to suppress electromagnetic interference, complying with the emission and immunity limits prescribed in international standards.

This protects the radio, communication, navigation and other electrical equipment onboard from possible interference with our products.



Outstanding UV and Impact Resistance

Hella marine lamps utilise advanced impact resistant polymers that will not yellow or deteriorate in the harsh marine environment.

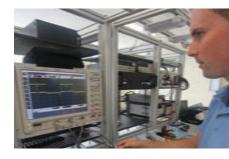


5 Year Warranty

All Hella marine LED based lighting products carry a Five Year Warranty providing peace of mind that the product will stand the test of time. For more information visit: http://www.hellamarine.com/en/about/warranty/













X-46 www.x-yachts.com



Warranty - Standing behind the product

All LED based lighting products supplied by Hella marine carry a Five-Year Warranty from end user purchase covering faults in materials, components or workmanship, with the exceptions as stated below:

Hella marine NaviLED TRIO Tri Colour LED navigation lamps carry a Seven-Year Warranty

Hella marine HID (Xenon) and Halogen based Deck Floodlights carry a One-Year Warranty.

Hella marine bulb based interior and exterior lamps and products listed in the accessories section of this catalogue carry a One-Year Warranty.

In the unlikely event that you should experience a confirmed warranty related problem with your purchase, Hella marine will, at its discretion, either repair, replace or refund the purchase price of the product.

Warranty services may be obtained by returning the product within the warranty period to the Hella dealer where the product was originally purchased.

This warranty is in addition to and does not preclude any other rights or remedies available to the consumer under any local legislation related to the provision of goods or services.

This warranty does not cover:

- Claim/s as a result of normal wear and tear or of any modifications and / or alterations to the product in any shape or form.
- 2. Claim/s as a result of non-compliance of the assembly, service and operating instructions and/or any unfit or improper use.
- 3. Any expenses incurred in the process of making the claim.

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New Zealand Coastguard www.rayglass.co.nz

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.

E.g.; 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.



First numera

- 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 Ø ≥ 50 mm
2	solid foreign objects Ø ≥ 12.5 mm
3	solid foreign objects Ø ≥ 2.5 mm
4	solid foreign objects Ø ≥ 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



Navigation Lamp Requirements and Technology



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 or regional requirements, is listed with each navigation lamp series throughout the catalogue.

Approval types:



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.



Approved under the Marine Equipment Directive (MED) 96/98/EC last modified by directive 2008/67/EC for use throughout Europe in all EC member states for both pleasure and commercial vessels.



Suitable for vessels compliant with RCD (Recreational Crafts and Personal Watercraft Directive) 2013/53/EU. RCD promotes a single set of EU safety and technical requirements for new recreational vessels less than 24m in length within the European Community.



Complies with USCG (United States Coast Guard) requirements. Lamps carry a marking for minimum visible distance in nautical miles, e.g. USCG 2 NM.



Complies with ABYC (American Boat and Yacht Council) Navigation Lamp Standard A-16.

Certifying bodies:



Approved by the German BSH (Bundesamt für Seeschifffahrt und Hydrographie) and carry BSH type approval numbers.

BSH was formerly called DHI (Deutsches Hydrographisches Institut).



Approved by the Italian RINA (Registro Italiano Navale) authority.

Lamps requirements by vessel length

For vessels less than 50 meters in length overall, IMO COLREG 72 describes the following minimum visible distances for navigation lamps.

Supplementary national or regional requirements approvals may also apply.

Vessels 0-12 meters / 0-40 feet in length:

White, Red, Green All Round lamps	2 NM
Masthead lamp,	2 NM
Port and Starboard lamps,	1 NM
Stern lamp,	2 NM
Tri Colour lamp, (Sailing vessels under sail only)	2 NM

Vessels 12-20 meters / 40-65 feet in length:

White, Red, Green All Round lamps,	2 NM
Masthead lamp,	3 NM
Port and Starboard lamps,	2 NM
Stern lamp,	2 NM
Tri Colour lamp, (Sailing vessels under sai	il only) 2 NM

Vessels 20-50 meters / 65-150 feet in length:

White, Red, Green All Round lamps,	2 NM
Masthead lamp,	5 NM
Port and Starboard lamps,	2 NM
Stern lamp,	2 NM





Wheelmark Approval



The Wheelmark for navigation lights symbolises conformity with the Marine Equipment Directive (MED) 96/98/EC, which calls upon IMO COLREG 1972 and the norms EN 14744 (European standard for navigation lights on inland and sea-going vessels) and EN 60945 (Maritime navigation and radiocommunication equipment and systems).

Wheelmark certified Hella marine LED navigation lamps are approved throughout Europe in all EC member states for both pleasure and commercial vessels.

Wheelmark approvals replace the previously required certificates of the national authorities with the aim of ensuring that the equipment meets a common standard of safety and performance valid in every member state of the EU.

A predominant safety requirement of EN 14744 for LED navigation lights is the monitoring and control of light output deviations caused by service life conditions. The Hella marine solutions are

Either; Sophisticated self control and diagnostic electronics integrated into the navigation lamp. The electronics check and measure each lamp ensuring light intensity, and consequently the lamp's visibility performance, permanently correspond to the visibility requirements of the norm for ongoing safety and reliability at sea.

Or: An integrated electronic timer recording the operating hours of a lamp. The timer will indicate 'service mode' by flashing the lamp once thousands of hours of operation have been reached.

The MED certification of Hella marine lamps can be recognized by the symbol of a ship's wheel (Wheelmark) engraved onto the top section of the shroud, and also onto the top section of the lens.

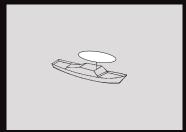
The MED lists statutory equipment carried and used on ships which are registered under the flags of the European Union member states which have to meet the international conventions developed by the International Maritime Organisation (IMO).

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



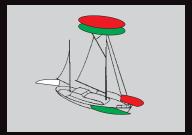
- 1 Port lamp
- 1 Starboard lamp
- 1 Stern lamp

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

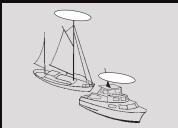
Sailboats up to 20m under sail



1 Tri-Colour lamp



Sailboats and Powerboats less than



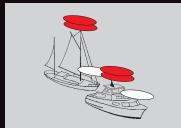
1 All Round White lamp

50m at anchor



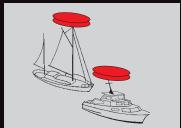
Sailboats and Powerboats more than

12m grounded



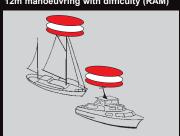
1 All Round White lamp 2 All Round Red lamps mounted above one another

Sailboats and Powerboats more than 12m not under command (NUC)



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 (RAM)



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

	Series Name / Series Number	Visible Distance	COLREG Max. length	Vessel type	Approvals / Certifying Bodies	Installation Surface	Light Colour	Power Consumption	Pg.
	NaviLED PRO 9900 Port	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA, BSH A-16, WHEELMARK, RCD	Vertical	Red	< 2W	17
	NaviLED PRO 9900 Port	3 NM	50M plus	Powerboat	COLREG, USCG, RINA, A-16, RCD	Vertical	Red	< 2W	17
	NaviLED Compact 0520 Port	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Vertical	Red	< 1W	21
	NaviLED Deck Mt 0620 Port	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, RCD	Horizontal	Red	< 1W	22
	NaviLED PRO 9908 Starboard	2 NM	50M	Yacht & Powerboa	COLREG, USCG, RINA, BSH A-16, WHEELMARK, RCD	Vertical	Green	< 2W	17
	NaviLED PRO 9908 Starboard	3 NM	50M plus	Powerboat	COLREG, USCG, RINA A-16, RCD	Vertical	Green	< 2W	17
	NaviLED Compact 0520 Starboard	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Vertical	Green	< 1W	21
	NaviLED Deck Mt 0620 Starboard	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, RCD	Horizontal	Green	< 1W	22
I	NaviLED PRO 9909 Stern	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA, BSH A-16, WHEELMARK, RCD	Vertical	White	< 2W	17
I	NaviLED PRO 9909 Stern	3 NM	50M plus	Powerboat	COLREG, USCG, RINA A-16, RCD	Vertical	White	< 2W	17
•	NaviLED Compact 0520 Stern	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Vertical	White	< 2W	21
	NaviLED PRO 9940 Masthead	3 NM	20M	Powerboat & Yachts under motor	COLREG, USCG, RINA, BSH A-16, WHEELMARK, RCD	Vertical	White	< 2.5W	17
New!	NaviLED PRO 9940 Masthead	5 NM	50M	Powerboat & Yachts under motor	COLREG, USCG, WHEELMARK, RCD	Vertical	White	4W	17
New!	NaviLED PRO 9941 Bi Colour	2 NM	50M	Yacht & Powerboat	COLREG, USCG, A-16, WHEELMARK, RCD	Vertical	Red / Green	< 2W	17
	NaviLED Trio 0650 Tri Colour	2 NM	20M	Yacht	COLREG, USCG, A-16, BSH, RCD	Horizontal	R G W White	< 3.5W Sailing < 1.5W Anchor	15
New!	NaviLED 360 0960 White	2 NM	50M	Yacht & Powerboat	COLREG, USCG, A-16, WHEELMARK, RCD	Horizontal	White	< 1.5W	19
P	NaviLED 360 9910 White	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, RCD	Horizontal	White	< 1.5W	19
	NaviLED 360 0910 White	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Horizontal	White	< 1.5W	19
	NaviLED 360 0910 Red	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Horizontal	Red	< 1.5W	19
	NaviLED 360 0910 Green	2 NM	50M	Yacht & Powerboat	COLREG, USCG, RINA A-16, BSH, RCD	Horizontal	Green	< 1.5W	19



LED Navigation Lamps



LED Navigation Lamps



LED Navigation Lamp Technology

Hella marine LED based navigation lamps provide power saving, highly visible and ultra durable lighting for reliability and safety at sea.

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 teams have 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.



Superior Lens and Optic Materials

All Hella marine LED Navigation lamps feature extra thick lenses - providing a long term lighting solution and environmentally friendly choice.

Taking ultra durable LED Navigation lighting to a new level, Hella marine specifies Grilamid, a high performance polyamide manufactured in Switzerland, as a standard or optional lens choice. Grilamid is a revolutionary transparent plastic with an exceptionally hig.h impact strength and resistance to UV and chemical damage.



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.



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 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. Multivolt LED lamps are also reverse polarity and spike protected for enhanced durability even under severe voltage fluctuations.



Electromagnetic Compatibility (EMC)

All Hella marine products are designed to suppress electromagnetic interference, complying with the emission and immunity limits prescribed in international standards. This protects the radio, communication, navigation and other electrical equipment onboard from possible interference with our products. Where applicable, Hella marine products carry CE marking for European Union legislation, and the C-Tick mark for Australian & New Zealand requirements.



C-Tick RCM

C-Tick is the Australian & New Zealand EMC compliance mark administered by the Australian Communications and Media Authority (ACMA) & Radio Spectrum Management (RSM) New Zealand, and will be transitioning to the RCM mark by 1st March, 2016. Hella marine products will remain compliant to these requirements throughout the transition period and beyond.



LED Tri Colour with Anchor navigation lamp. Advanced materials and state of the art technology for reliability, efficiency and Safety at Sea



 (ϵ)

IMO

USCG

RCD

BSH

A-16





LED Windex Lamps

Power saving and durable lamps to illuminate reflectors of wind direction indicators





Voltage

8-28V Red 10-33V White

Light Colour Part Number

2XT 959 630-351 2XT 959 630-451



Windex Adaptor Nut

Machined 316 stainless steel adaptor nut to install a Windex directly onto the LED Tri Colour mounting shaft.

M12 (Mounting Shaft) to 5/16UNC. Female to female.

Part Number 9NM 958 988-402



Packaging for aftermarket presentation

Ultra low current draw. Power saving on board

Port. Starboard and Stern functions draw less than 3.5W combined. The Anchor lamp draws less than 1.5W for substantial power saving compared to the 25W consumed by incandescent Tri Colour lamps.

Fully sealed for life. IP 67 Certified

Completely sealed, impervious to saltwater and contaminants.

Safe and highly visible

Hella marine lens and optics technology ensures ultra precise horizontal and vertical cut-off angles, clearly indicating a vessel's movement and heading.

Ultra durable materials. Ultra long service life

Advanced heavy duty Grilamid lens and housing, plus proven Hella marine LED technology combines to provide outstanding resistance to vibration, impact and shock loads. Relentless test programs have helped lift product reliability to new standards for ongoing performance and safety in the most demanding conditions.

Unique installation and removal system

The NaviLED Trio installs on a unique 316 stainless steel mounting shaft for a secure attachment and reliable electrical connections.

















Housing Material UV resistant, high impact nylon Lens Material UV resistant, ultra heavy duty Grilamid

Mounting Shaft 316 stainless steel Minimum Visible Distance 2 Nautical Mile (Yacht)

Cable Pre-wired with 400mm of triple core marine cable

Multivolt 9-33V DC **Operating Voltage**

Voltage Protection Spike protected to +500 volts

Reverse polarity protected to -700 volts

Port, Starboard and Stern - Less than 3.5W combined **Power Consumption**

All Round White / Anchor - Less than 1.5W

Degree of Protection IP 67 - Completely Sealed

Weight 400g (including cable) Approvals BSH, IMO COLREG, USCG,

LED Tri Colour with Anchor Lamp

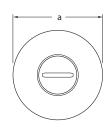
Part Number

2LT 980 650-001

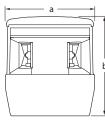
Visibility

2 NM

ABYC, RCD















Ultra durable LED navigation lamps for enhanced safety. Proven worldwide on commercial and recreational vessels











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 maintenance. Ultra long service life

Hella marine LED technology has no filaments to break making NaviLED PRO lamps extremely shock and vibration proof for proven 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.

Wheelmark/MED versions incorporate 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 Grilamid lens to offer superior strength in extreme conditions.

Pre-wired with 2.5m of twin core marine cable

High quality cable assemblies for time saving, completely sealed installations.

Internationally certified

Meets the requirements of COLREG, USCG, ABYC A-16, RINA, BSH, RCD, Wheelmark.

















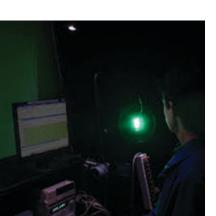


Sealed light engine clips into mounting shroud for an ultra secure attachment.



Rear of lamp without shroud.

Pre-wired with twin core marine cable



NaviLED PRO Photometric Testing

NaviLED PRO series 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 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.

Material Description Hi impact acrylic lens or

Ultra heavy duty Grilamid lens (MED versions only)

Minimum Visible Distance 2 Nautical Mile (Yachts and Powerboats)

3 Nautical Mile (Powerboats only)

 Cable
 Pre-wired with 2.5m of twin core 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 - Completely Sealed
Weight 150g (including cable)

Approvals Wheelmark, IMO COLREG, USCG, ABYC A-16

RINA, BSH, RCD

d b













Dimensions

a = 87mm / 3.43" b = 90mm / 3.54"

c = 57 mm / 2.25"

d = 50mm / 1.97"

IMO COLREG and Wheelmark Certified Lamps.





NaviLED PRO Wheelmark lamps are type approved and certified according to the Marine Equipment Directive 96/98/EC for inland waterways and the open sea in Europe. A Grilamid lens is standard for superior strength in extreme conditions. Each single-function NaviLED PRO Wheelmark lamp is equipped with a sophisticated self diagnostic control. Port and Starboard Grilamid lens versions appear clear when the lamps are OFF.

High Impact Lens for Powerboats and Yachts

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 95 9 900 -501	2LT 95 9 900 -511
Starboard	2 NM	2LT 95 9 908 -501	2LT 95 9 908 -511
Stern	2 NM	2LT 95 9 909 -501	2LT 95 9 909 -511



Ultra Heavy Duty Lens for Powerboats and Yachts



Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 95 9 900 -601	2LT 95 9 900 -611
Starboard	2 NM	2LT 95 9 908 -601	2LT 95 9 908 -611
Stern	2 NM	2LT 95 9 909 -601	2LT 95 9 909 -611
Bi-Colour	2 NM	2LT 95 9 941 -001	2LT 95 9 941- 011
Masthead*	3 NM	2LT 95 9 940 -601	2LT 95 9 940 -611
Masthead*	5 NM	2LT 95 9 940 -401	2LT 95 9 940 -411

^{*} for Powerboats and Sailing Yachts under motor

IMO COLREG, USCG, RINA, ABYC A-16 and RCD Certified Lamps.



Packaging for aftermarket presentation





1





Masthead

LED 2 Nautical Mile Powerboat and Yacht Lamps

Lamp Type	Visibility	Black Shroud	White Shroud
Port	2 NM	2LT 95 9 900 -001	2LT 95 9 900 -01
Starboard	2 NM	2LT 95 9 908 -001	2LT 95 9 908 -01
Stern	2 NIM	21 T 95 9 909- 001	21 T 050 000-01

^{**} for Powerboats and Sailing Yachts under motor

LED 3 Nautical Mile Powerboat Lamps

Lamp Type	Visibility	Black Shroud	White Shroud	
Port	3 NM	2LT 95 9 900- 201	2LT 95 9 900- 211	
Starboard	3 NM	2LT 95 9 908- 201	2LT 95 9 908- 211	
Stern	3 NM	2LT 95 9 909 -201	2LT 95 9 909 -211	
Maethaad**	3 NIM	21 T 05 0 040- 201	21 T 05 0 040- 211	



LED efficiency and precision optics for reliable and highly visible all round lighting

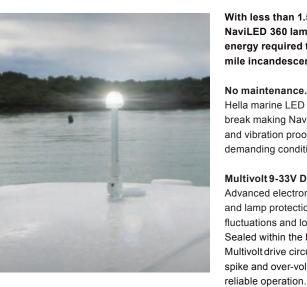












With less than 1.5W of power consumption, NaviLED 360 lamps draw a fraction of the energy required to run a conventional 2 nautical mile incandescent lamp.

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 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages. Sealed within the base or aluminium pole, the Multivolt drive circuitry provides reverse polarity, spike and over-voltage protection for long life and

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, highly UV and corrosion resistant.

Pre-wired with marine cable

Quality twin core marine cable assemblies are used on all lamps ensuring time saving, completely sealed installations.

Internationally certified

Meets the requirements of COLREG, BSH, USCG, ABYC A-16, RINA, RCD













Note -

The electronics to drive and protect a NaviLED 360 pole lamp are contained on a circuit board inside the aluminium tube that is sealed by heavy duty heat shrink insulation.

This circuit board assembly measures 105mm from the bottom of the lamp's aluminium base.



18

Material Description UV resistant, enhanced impact acrylic lens Anodized aluminium lamp base and pole

< 1.5W

Minimum Visible Distance 2 Nautical Mile

Cable

Operating Voltage

Voltage Protection

Power Consumption

Weight

Approvals

Degree of Protection

IP 67 - Completely Sealed

Spike protected to +500 volts

Multivolt 9-33V DC

Surface Mount - 150g (including cable)

Pre-wired with twin core marine cable

Reverse polarity protected to -500 volts

12" / 305mm Fold down pole mount - 300g (including cable)

IMO COLREG, USCG, RINA, ABYC A-16, BSH, RCD

NaviLED 360 Surface Mount Accessory Kit.

For applications where access to the cable connection is required, or applications requiring frequent lamp installation and removal.

Kit includes -

1 x Base, 1 x Cable clamp, 1 x Connector block

Black Base 8HG 980 917-101

White Base 8HG 980 917-111



COLREG and Wheelmark Certified Lamps.







RCD

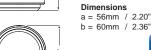














Ultra compact and robust surface mount design with no visible fastenings once installed.

Black Base

2LT 980 960-001



Light Colour

COLREG and BSH Certified Lamps.

Visibility

2 NM







White Base

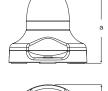
2LT 980 960-011













Dimensions a = 83mm / 3.27" b = 90mm / 3.54"

2 Nautical Mile All Round Lamps with surface mount base

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

Robust surface mount with three mounting holes.

COLREG, USCG, RCD and ABYC A-16 Certified Lamps.



Packaging for aftermarket presentation











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IMO



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USCG





2 Nautical Mile All Round Lamps with surface mount base

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

Robust surface mount with three mounting holes.







2 Nautical Mile Anchor Lamps with fixed pole mount

Overall Length	Visibility	Black Base	White Base
8" / 204mm	2 NM	2LT 95 9 910 -011	2LT 95 9 910 -111

Robust fixed pole mount with two counter-sunk holes.









2 Nautical Mile Anchor Lamps with fold down pole mount

Overall Length	Visibility	Black Base	White Base
12" / 305mm	2 NM	2LT 95 9 910 -621	2LT 95 9 910 -721
20" / 500mm	2 NM	2LT 95 9 910 -661	2LT 95 9 910 -761
24" / 610mm	2 NM	2LT 95 9 910 -631	2LT 95 9 910 -731
34" / 850mm	2 NM	2LT 95 9 910 -651	2LT 95 9 910 -751

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





2 Nautical Mile Anchor Lamps with plug-in pole mount

Overall Length	Visibility	Black Base	White Base
24" / 610mm	2 NM	2LT 95 9 910 -431	2LT 95 9 910 -531
42" / 1070mm	2 NM	2LT 95 9 910 -451	2LT 959 910-551

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





Compact LED navigation lamps. Attractive, power saving and proven reliability

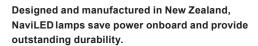




























Ultra low current draw

NaviLED lamps use less than 10% of the power required to run a bulb navigation lamp of the same visible distance.

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.



Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

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

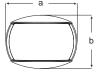
Single core (120mm) or twin core (2.5m) sheathed marine cable assemblies available. Ensures time saving, completely sealed installations.

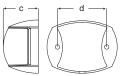


Sealed light engine clips into mounting shroud for an ultra secure attachment.



Rear of lamp clipped into shroud. Single core marine cable.





Dimensions

a = 71mm / 2.80" b = 53mm / 2.09" c = 33mm / 1.30"

d = 50 mm / 1.97"

Material Description UV resistant, enhanced impact resistant acrylic lens

High impact shroud

Minimum Visible Distance 2 Nautical Mile (Yachts and Powerboats)

Pre-wired with marine cable

Operating Voltage Port, Starboard and Stern Lamps Multivolt 9-33V DC

Towing Lamps 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 - Completely Sealed

Weight 60g (including 120mm single core cable)

IMO COLREG, USCG, RINA, ABYC A-16, BSH, RCD **Approvals**



Packaging for aftermarket presentation



BSH Certified Lamps

Single Lamps (with 120mm of single core marine cable)

er lens

ED	2 Nautical Mile Powerboat and Yacht Lamps - Coloured oute

рсц	Lamp Type	Visibility	Black Shroud	White Shroud
BSH	Port	2 NM	2LT 98 0 520 -061	2LT 98 0 520 -071
	Starboard	2 NM	2LT 98 0 520 -261	2LT 98 0 520 -271
	Stern*	2 NM	2LT 98 0 520 -501	2LT 98 0 520 -511

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

2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

1	Lamp Type	Visibility	Black Shroud	White Shroud
	Port	2 NM	2LT 98 0 520 -081	2LT 98 0 520 -091
	Starboard	2 NM	2LT 98 0 520 -281	2LT 98 0 520 -291
	Stern*	2 NM	2LT 98 0 520 -531	2LT 98 0 520 -541

Twin Pack Lamps -

*Stern lamp has a clear lens

BSH

Port and Starboard (with 120mm of single core marine cable)

Multivolt	2 Naulical Will	nu raciii Lanips	Lamps - Coloured outer len	
BSH	Lamp Type	Visibility	Black Shroud	White Shroud

Port & Starboard 2 NM 2LT 980 520-861 2LT 980 520-871



IMO

RINA

BSH

RCD

COLREG, USCG, RINA, ABYC A-16 Certified Lamps

2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

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

2 Nautical Mile Powerboat and Yacht Lamps - Clear outer lens

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 single core marine cable)

2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

iivoit					
	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	

2 Nautical Mile Powerboat and Yacht Lamps - Clear outer lens

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 -

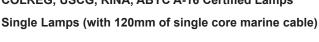
Port and Starboard (with 120mm of single core marine cable)

LED Multivolt	2 Nautical M	ile Powerboat and Yacht Lamps - Coloured	outer lens
wantivoit			

Lamp Type Port & Starboard 2 NM 2LT 98**0 520**-801 2LT 980 520-811

2 Nautical Mile Powerboat and Yacht Lamps - Clear outer lens

Lamp Type Visibility Black Shroud White Shroud Port & Starboard 2 NM 2LT 980 520-901 2LT 980 520-911







USCG

ABYC A-16







Packaging for aftermarket presentation

Packaging for aftermarket presentation





Compact deck mount LED navigation lamps. Attractive, power saving and proven reliability









Material Description

Minimum Visible Distance

UV resistant, enhanced impact resistant acrylic lens

High impact shroud

2 Nautical Mile (Yachts and Powerboats)

Cable

Pre-wired with 500mm of twin core marine cable

Operating Voltage Multivolt 9-33V DC **Voltage Protection** Spike protected to +500 volts

Reverse polarity protected to -700 volts

Power Consumption Port and Starboard less than 2W combined

Degree of Protection IP 67 - Completely Sealed Weight 75g (including cable)

Approvals IMO COLREG, USCG, RINA, ABYC A-16, RCD





























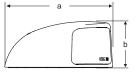




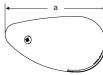
a = 90.0mm / 3.54"

b = 38.5mm / 1.52"

c = 50.0mm / 1.97"



Starboard from starboard side



Starboard from top



Starboard from bow





Twin Pack Lamps - Port and Starboard







Packaging for aftermarket presentation

2 Nautical Mile Powerboat and Yacht Lamps - Coloured outer lens

Lamp Type Visibility **Black Shroud** White Shroud Port & Starboard 2 NM 2LT 980 620-801 2LT 980 620-811







2 Nautical Mile Powerboat and Yacht Lamps - Clear outer lens

Lamp Type Visibility Black Shroud White Shroud Port & Starboard 2 NM 2LT 980 620-901 2LT 980 620-911



Bulb Navigation Lamps



2492 and 5002 Series All Round White / Anchor Lamps

Anchor lamps in a wide range of pole lengths and base types.

Featuring heavy duty anodized aluminium poles and impact resistant bases.

Material Description UV and impact resistant plastic housing and lens.

Anodized aluminium poles

Minimum Visible Distance 2 Nautical Mile

12V/10W Ba15s or 12V/10W SV8.5 included Bulb

Installation Horizontal surface mount. Includes stainless steel screws

Degree of Protection IP X6

Approvals IMO COLREG, USCG, ABYC A-16, RCD















2LT 002 492-201





Voltage **Black Housing** White Housing 12V 2LT 002 492-201 2LT 002 492-211

Robust fixed mount with concealed fastenings.



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

Black Housing Voltage Overall Length White Housing 12V 38" / 965mm 2LT 002 492-221 2LT 002 492-241

Pole plugs into lamp base and is fixed into position with locking collar.



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

voitage	Overall Height	DIACK DASE	write base
12V	4" / 102mm	2LT 99 5 002 -001	2LT 99 5 002 -131
12V	8" / 204mm	2LT 995 002-011	2LT 99 5 002 -141

Robust fixed mount with two counter-sunk holes.





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

Voltage	Overall Length	Black Base	White Base
12V	8" / 204mm	2LT 99 5 002 -021	2LT 99 5 002 -151
12V	12" / 305mm	2LT 99 5 002 -051	2LT 99 5 002 -181
12V	20" / 508mm	2LT 99 5 002 -031	2LT 99 5 002 -161
12V	24" / 610mm	2LT 99 5 002 -321	2LT 99 5 002 -121

Lamp pole can be adjusted through 180 degrees and secured at desired angle with locking collar.









Voltage	Overall Length	Black Base	White Base
12V	24" / 610mm	2LT 99 5 002 -041	2LT 99 5 002 -171
12V	36" / 914mm	2LT 99 5 002 -061	2LT 99 5 002 -191
12V	42" / 1066mm	2LT 99 5 002 -071	2LT 99 5 002 -201
12V	48" / 1220mm	2LT 99 5 002 -081	2LT 99 5 002 -211
12V	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.







2492 Series Spare Parts

2LT 99**5 002**-171

Lamp housing clear Seal 12V / 10W Bulb Plug-in base black Plug-in base white 9EL 111 681-001 8HG 992 157-021 8HG 992 157-031 9GD 111 684-001 8GA 002 071-131

5002 Series Spare Parts

Lamp housing black. Rubber cap black. Plug-in base black Fold down base black 12V / 10W Bulb 9EL 990 157-001 To suit Plug-in base 8HG 99**2 157**-021 8HG 992 158-001 8GM 993 406-001 9GH 992 157-041 Lamp housing white. Rubber cap white. Plug-in base white Fold down base white 9EL 99**0 157**-011 To suit Plug-in base 8HG 99**2 157**-031 8HG 99**2 158**-011 9GH 99**2 157**-051

3562 Series Position Lamps

Hella marine

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.



USCG

ABYC A-16



















Material Description
Minimum Visible Distance

UV and impact resistant plastic housing and lens Masthead and Stern 2 Nautical Miles

Port and Starboard 1 Nautical Mile

Bulb 12V / 10W SV8.5 included

InstallationVertical surface mount. Mounting base availableCable EntryThrough base plate with rubber grommet

Degree of Protection IP 54

Approvals IMO COLREG, USCG, ABYC A-16, RCD



Packaging for aftermarket presentation

1 Nautical Mile Powerboat and Yacht Lamps

Lamp Type	Voltage	Black Housing	White Housing
Port	12V	2LT 00 3 562 -035	2LT 00 3 562 -135
Starboard	12V	2LT 00 3 562 -025	2LT 00 3 562 -125
Bi-Colour	12V	2LT 00 3 562 -045	2LT 00 3 562 -145

2 Nautical Mile Powerboat and Yacht Lamps

Lamp Type	Voltage	Black Housing	White Housing
Stern	12\/	2LT 003 562-015	2LT 00 3 562 -115



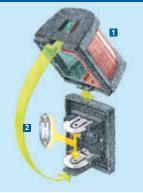


2 Nautical Mile Powerboat Lamps

Lamp Type	Voltage	Black Housing	White Housing
Masthead**	12V	2LT 003 562-005	2LT 00 3 562 -105

^{**} for Powerboats and Sailing Yachts under Motor

3562 Series Spare Parts



1 Lamp housing black

9EL 12 2 562 -031
9EL 12 2 562 -021
9EL 12 2 562 -011
9EL 12 2 562 -001
9EL 12 3 669 -001

1 Lamp housing white

ı	Lamp nousing write			
	Port	9EL 12 2 562 -111		
	Starboard	9EL 12 2 562 -101		
	Stern	9EL 12 2 562 -091		
	Masthead	9EL 12 2 562 -081		
	Bi-colour	9EL 12 3 669 -011		

2 12V Bulb

8GM 00**2 091**-131



Mounting BaseFor horizontal surfaces.

Black 8HG 00**5 799**-001 White 8HG 00**5 799**-011

2984 Series Position Lamps

Internationally approved navigation lamps. Non-magnetic and saltwater resistant. Housing 'snaps' to base without screws.

2984 series navigation lamps feature a vertically hanging bulb and contacts in the upper area of each lamp to prevent corrosion.





























Material Description
Minimum Visible Distance

Bulb

Installation

Cable Entry

Approvals

Degree of Protection

UV and impact resistant plastic housing and lens Port and Starboard 2 NM, Stern 2 NM,

Masthead 3 NM

12V / 25W BAY15d included Vertical surface mount

Through base plate with rubber grommet

IP 55

IMO COLREG, BSH, USCG, ABYC A-16,

RINA, RCD







Packaging for aftermarket presentation

2 Nautical Mile Powerboat and Yacht Lamps

Lamp Type	Voltage	Black Housing	White Housing
Port	12V	2LT 00 2 984 -335	2LT 00 2 984 -385
Starboard	12V	2LT 00 2 984 -345	2LT 00 2 984 -395
Bi-Colour	12V	2LT 00 2 984 -315	2LT 00 2 984 -365
Stern	12V	2LT 00 2 984 -325	2LT 00 2 984 -375

3 Nautical Mile Powerboat Lamps

Lamp Type	Voltage	Black Housing	White Housing
Masthead**	12V	2LT 00 2 984 -305	2LT 00 2 984 -355

^{**} for Powerboats and Sailing Yachts under Motor

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 Lamp housing black
Bi-Colour 9EL 12**7 083**-041

Lamp housing white Bi-Colour 9EL 12**7 083**-111

Lamp housing black

Masthead 9EL 127 083-001

Stern 9EL 127 083-011

Lamp housing white Masthead 9EL 12**7 083**-071

Stern

9EL 12**7 083**-081

5 Bulb holder 9FT 126 931-001

6 Bulbs

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

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

2984 Series Tri Colour Lamps

Hella marine 🕮

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. The lamp housing features a bayonet lock for easy bulb change.













Material Description UV and impact resistant plastic housing and lens

All Round White / Anchor 2 NM

Port and Starboard 2 NM, Stern 2 NM,

Bulb 12V BAY15d included Installation Horizontal surface mount

Through base plate with rubber grommet **Cable Entry**

Degree of Protection IP 55

Minimum Visible Distance

Approvals IMO COLREG, BSH, USCG, ABYC A-16,

RINA, RCD



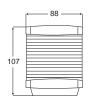
Packaging for aftermarket presentation

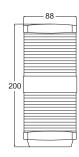
2 Nautical Mile Tri-Colour Lamp

Lamp Type Voltage **Black Housing** Tri-Colour 12V 2LT 002 984-535

2 Nautical Mile Tri-Colour Lamp with All Round White

Voltage Lamp Type **Black Housing** Tri-Colour / Anchor Lamp 12V 2LT 002 984-601







Lamp housing black 9HD 12**3 744**-031

1	(Tri-Colour lamp only)	9HD 12 3 744 -031
2	Tri-Colour with Anchor lamp	9HD 12 3 744 -041
	Tri-Colour with Anchor lamp	9XS 12 3 742 -001

Bulb 12V

8GA 003 488-301 Tri-Colour lamp Tri-Colour with Anchor lamp 8GA 003 488-301 8GA 003 488-121 Bulb 24V

8GA 003 488-311 Tri-Colour lamp Tri-Colour with Anchor lamp 8GA 003 488-311 8GA 003 488-131 Seal

9GD 109 701-221 Tri-Colour lamp Tri-Colour with Anchor lamp 9GD 109 701-221

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.

UV and impact resistant plastic housing and lens



USCG



ABYC **A-16**





Installation

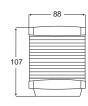
e Distance 2 Nautical Mile
12V BAY15d included
Horizontal surface mount

Cable Entry Through base plate with rubber grommet

Degree of Protection IP 5

Approvals IMO COLREG, BSH, USCG, ABYC A-16,

RINA, RCD





Packaging for aftermarket presentation

2 Nautical Mile All Round White / Anchor Lamps

Lamp TypeVoltageBlack HousingWhite HousingAll Round White / Anchor12V2LT 002 984-5052LT 002 984-565

2 Nautical Mile All Round Red Lamps

 Lamp Type
 Voltage
 Black Housing

 All Round Red
 12V
 2LT 002 984-525

2 Nautical Mile All Round Green Lamps

Lamp TypeVoltageBlack HousingAll Round Green12V2LT 002 984-515

	2984 Series Spare Parts	184 Series Spare Parts					
Lamp housing / lens black		Bulb 12V		Bulb 24V			
All Round White / Anchor 9HD 123 744-001		All Round White / Anchor	8GA 00 3 488 -301	All Round White / Anchor	8GA 00 3 488 -131		
	All Round Red	9HD 12 3 744 -021	All Round Red	8GA 00 3 488 -301	All Round Red	8GA 00 3 488 -311	
	All Round Green	9XS 12 3 742 -011	All Round Green	8GA 00 3 488 -301	All Round Green	8GA 00 3 488 -311	
Lamp housing / lens white		Seal		Сар			
	All Round White / Anchor	9HD 12 3 744 -071	All lamp housings	9GD 10 9 701 -221	All lamp housings	9HD 13 2 905 -001	



LED Floodlights





'Fit and Forget' LED Reliability.

Hella marine LED floodlights provide efficient, power saving and ultra durable illumination for reliability and safety at sea.



Combining efficient LED light sources with advanced optic technology, Hella marine LED products deliver more light output per watt than traditional bulb lamps and provide considerable energy savings.

As an example, Hella marine LED Module 70 lamps consume less than 30% of the power required to run a 55W H3 incandescent bulb floodlight (e.g. Hella marine 7118 series)

No bulbs, No maintenance. Long service life.

Hella marine LED technology has no filaments to break, making the lamps extremely shock and vibration resistant for reliable illumination

Low heat signature for improved safety.

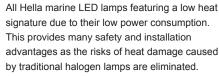
signature due to their low power consumption. This provides many safety and installation advantages as the risks of heat damage caused by traditional halogen lamps are eliminated.

System Lumens Performance (SLP) versus Raw LED Lumens.

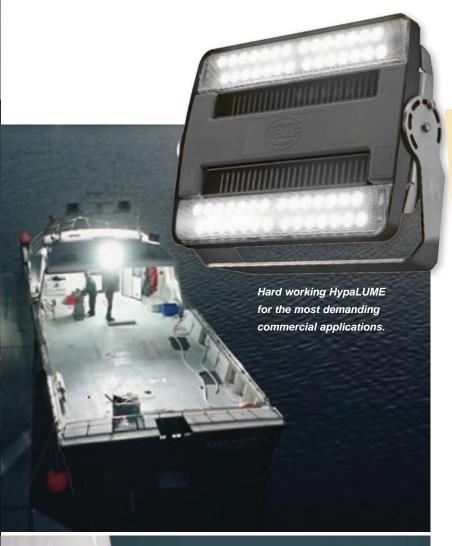
Rather than referencing Raw LED Lumens, Hella marine specifies the System Lumen Performance of the complete Lamp- or Luminaire system.

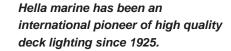
System Lumens state the actual light performance at standard operating voltage and factors in losses physically inherent in the optical system and well as the efficiency of the electronic LED drive circuit.

By stating the System Lumen Performance, Hella marine proudly communicates the true performance expected from each lamp*.



*small, but to the human eye unnoticeable differences are common from lamp to lamp due to variances in the LED manufacturing yield.







The future of efficient and durable deck lighting is LED based. Compared to traditional halogen lamps, the energy saving and improved reliability benefits on offer with quality LED technology are significant.

Hella marine LED Mega Beam lamps illuminate cockpit and deck areas with crisp white light consuming only 13W of power. This represents significant savings compared to the 55W consumed by 12V halogen floodlights.

These power savings are possible due to highly efficient LEDs and optics that provide considerably more light output per watt than halogen floodlights.

Lens and optic engineering play an important role to efficiently capture and spread the available light onto working surfaces without glare or eye strain.





Advances in the luminous efficiency of LEDs has opened doors to the development of a new and unique class of Hella marine LED floodlighting.

The Sea Hawk series offers durable, lightweight and efficient 'class leading' performance. Reliability and strength is enhanced by high performance Grilamid selected for the lens of all lamps.

The housings of Sea Hawk-R and XL lamps are injection moulded from 'Non-metal' thermally conductive polymer that is highly resistant to degradation, even under harsh UV.

Utilising thermal polymer eliminates the requirement for an external aluminium heat sink in this class of floodlight, removing potential surface deterioration and material corrosion risks associated with coated aluminium in the harsh marine environment.



LED Floodlights



'Fit and Forget' LED Reliability.



Five Year Warranty

Hella marine LED Floodlights carry a Five Year Warranty providing peace of mind that the product will stand the test of time.



Fully sealed for life

Each Hella marine LED lamp is a completely sealed opto-electronic device. Proven design, precision engineering, and the use of ultra durable materials ensures superior resistance to water, impact, UV radiation and general wear and tear.



Class Leading Efficiency

Combining efficient LED sources with advanced optic technology, Hella marine LED products deliver more light output per watt than incandescent based lamps with significant energy savings.



'Non-metal' Thermally Conductive Housing

Sea Hawk-R and Sea Hawk-XL housings are injection moulded from a revolutionary thermally conductive polymer that is highly resistant to degradation, even under harsh UV. This advanced material draws heat away from internal electronics for reliable long-term operation. Utilising thermal polymer eliminates the requirement for a aluminium housing, removing potential surface deterioration and corrosion risks associated with coated metal in the harsh marine environment.



Superior Lens Materials

Many Hella marine LED floodlights utilise Grilamid , a high performance polyamide manufactured in Switzerland, as a heavy duty lens material.

Grilamid is a revolutionary new transparent plastic with an exceptionally high impact strength and resistance to UV and chemical damage.



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 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. Multivolt LED lamps are also reverse polarity and spike protected for enhanced durability even under severe voltage fluctuations.



Materials withstand harsh environments

Advanced UV resistant polymers that will not yellow or become brittle even following years of exposure.



Electromagnetic Compatibility (EMC)

All Hella marine products are designed to suppress electromagnetic interference, complying with the emission and immunity limits prescribed in international standards. This protects the radio, communication, navigation and other electrical equipment on board from possible interference with our products. Where applicable, Hella marine products carry CE marking for European Union legislation, and the C-Tick mark for Australian & New Zealand requirements.





C-Tick is the Australian & New Zealand EMC compliance mark administered by the Australian Communications and Media Authority (ACMA) & Radio Spectrum Management (RSM) New Zealand, and will be transitioning to the RCM mark by 1st March, 2016. Hella marine products will remain compliant to these requirements throughout the transition period and beyond.

C-Tick

RCM

	Series Name	Dimensions mm	Installation Type	System Lumen	Beam Angle	Peak Lux @ 3M	Peak Lux @ 6M	Power Consumption	Weight (including cable)	Page No.
CHES .	Sea Hawk Spread	136 x 53	Bracket	200	50° Spread	33 Lux	8 Lux	<3W 0.25A@12V	250g	35
	Sea Hawk Spot	136 x 53	Bracket	200	21° Spot	133 Lux	33 Lux	<3W 0.25A@12V	250g	35
(\$63163)	Sea Hawk Recess - Spread	176 x 50	Recess	200	50° Spread	33 Lux	8 Lux	<3W 0.25A@12V	125g	35
	Sea Hawk Recess - Spot	176 x 50	Recess	200	21° Spot	133 Lux	33 Lux	<3W 0.25A@12V	125g	35
New!	Sea Hawk-R Spread White Light	136 x 53	Bracket	550	50° Spread	80 Lux	20 Lux	7W 0.58A@12V	250g	37
	Sea Hawk-XL Spread White Light	170 x 68	Bracket	750	40° Spread	100 Lux	25 Lux	12W High 2W Low 1.0A@12V	500g	39
	Sea Hawk-XL Spot White Light	170 x 68	Bracket	750	16° Spot	479 Lux	119 Lux	12W High 2W Low 1.0A@12V	500g	39
	Module 70 Gen 3	83 x 110	Bracket	800	40° Spread	260 Lux	65 Lux	13W 1.08A@12V	500g	41
	Mega Beam Gen 3	110 x 145	Bracket	800	40° Spread	260 Lux	65 Lux	13W 1.08A@12V	750g	41
New!	Power Beam	112 x 129	Bracket	900	45° Spread	300 Lux	75 Lux	18W 1.5A@12V	720g	43
	Series Name	Dimensions mm	Installation Type	Lumen	Beam Angle	Peak Lux @ 5M	Peak Lux @ 10M	Power Consumption	Weight (including cable)	Page No.
New!	AS 5000	160 x 170	Bracket	5000	44° Spread	760 Lux	190 Lux	60W 5A@12V	2.6 Kg	45
New!	HypaLUME	504 x 380	Bracket	20000	60° Spread	2240 Lux	560 Lux	240W 10A@24V	13.3 Kg	47



A new class of ultra efficient, compact and lightweight LED lamps



















Sea Hawk bracket mount versions contain friction mounts and can be easily adjusted up and down without tools.



Completely sealed and lightweight, Sea Hawk lamps offer compact and durable illumination.

Class leading efficiency

Advanced optics deliver 200 lumens of highly effective crisp white light for an ultra low energy consumption of less than 3W, (<0.25A@12V).

Fully sealed and salt water durable

Sea Hawk lamps are IP 67 and feature a high performance Grilamid lens for superior strength and resistance to impact and UV.

Tinned marine cable is pre-wired to each lamp for absolute water tightness and reliable electrical connections.

A polished 316 stainless steel bracket allows easy adjus ent. Friction mounts hold the lamp steady without the need to adjust fastenings.

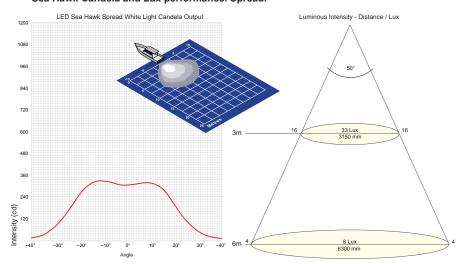
Multivolt 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

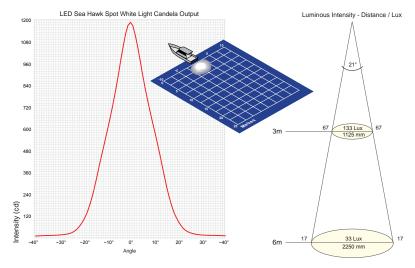
Engineered light patterns

Precision optics provide two light pattern options. Spread lamps are suited for illuminating cockpits and transom areas with a close range, wide spread of light. Spot lamps offer a narrower and more concentrated light pattern for applications such as spreader lighting on yacht masts.

Sea Hawk Candela and Lux performance. Spread.



Sea Hawk Candela and Lux performance. Spot





Packaging for aftermarket presentation

Material Description UV and impact resistant plastic

Heavy duty Grilamid lens

Bracket Polished 316 stainless steel
Colour Temperature 5500K (White) 1600K (Red)

Cable Pre-wired with 2.5m of twin core marine cable

Operating Voltage White Lamps Multivolt 9-33V DC. Red Lamps 12V DC

Degree of Protection IP 67 - Completely Sealed

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Recess mount 125g (including cable)

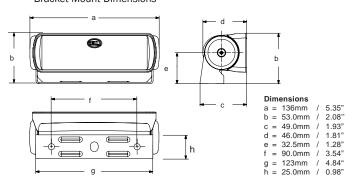
Light Output White Lamps - 200 lumens

Approvals CE, C-Tick, ISO 8846 (Ignition Protection)

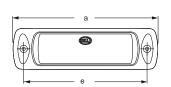
ISO

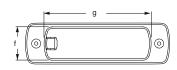
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Recess Mount Dimensions







Dimensions

a = 176mm / 6.93" b = 50mm / 1.97" c = 35mm / 1.38" d = 12mm / 0.47" e = 150mm / 5.91" f = 42mm / 1.65"

f = 42mm / 1.65" a = 132mm / 5.20"

Sea Hawk Bracket Mount

LED

White Light LED Floodlights - Spread

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 98 0 670 -301
9-33V DC	White Housing	2LT 98 0 670 -311



White Light LED Deck Lamps - Spot

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 98 0 670 -201
9-33V DC	White Housing	2LT 98 0 670 -211



Voltage	Housing Colour	Part Number
12V DC	Black Housing	2LT 98 0 670 -341
12V DC	White Housing	2LT 980 670-351





Sea Hawk Recess Mount



White Light LED Floodlights - Spread

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 98 0 747 -101
9-33V DC	White Housing	2LT 98 0 747 -111





White Light LED Deck Lamps - Spot

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 98 0 747 -001
9-33V DC	White Housing	2LT 98 0 747 -011





$\label{eq:Red Sea Hawk lamps of the maximum night vision preservation.}$

Ocean racers, professional sports fisherman and commercial operators recognise the 'non glare' night vision preserving advantages of red Sea Hawk lamps together with their energy saving and durability.



Compact, high performance LED floodlights



Future technology has been applied to the successful Sea Hawk series for class leading efficiency and guaranteed durability.

Hi-tech materials

Sea Hawk-R housings are 'Non-metal', injection moulded from a revolutionary thermally conductive polymer that is highly resistant to degradation, even under harsh UV.

This advanced material draws heat away from internal electronics for reliable long-term operation. Utilising thermal polymer eliminates the requirement for a aluminium housing in this class of floodlight, removing potential surface deterioration and material corrosion risks associated with coated metal in the harsh marine environment.

The lens is precision moulded from high performance Grilamid for strength and durability.

Multivolt 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

Engineered light pattern

Sophisticated optics deliver a broad and even illumination without glare or harsh point sources. Specifically developed to illuminate a wide, closerange spread over a cockpit, foredeck or working area.

Pre-wired with twin core marine cable

High quality sealed cable assemblies for time saving, completely sealed installations.

Designed and manufactured in New Zealand Sea Hawk lamps carry a 5 year warranty.











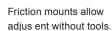








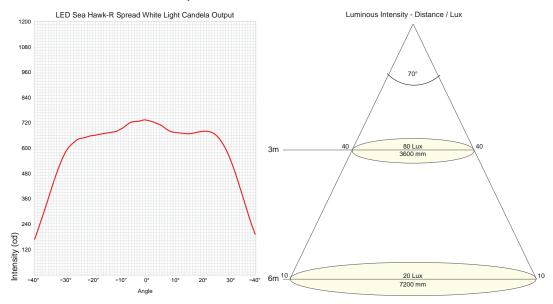






Completely sealed lamp and cable entry. Polished 316 stainless steel bracket.

Sea Hawk-R Candela and Lux performance.





Packaging for aftermarket presentation

Material Description 'Non metal' thermally conductive polymer housing

Heavy duty Grilamid lens

Polished 316 stainless steel **Bracket**

Colour Temperature 5000K (White) / 3000K (Warm White)

Cable Pre-wired with 0.5m of twin core marine cable

Operating Voltage Multivolt 9-33V DC

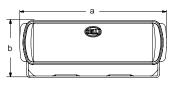
Degree of Protection IP 67 - Completely Sealed

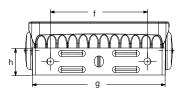
Power Consumption 7W (0.58A@12V / 0.29A@24V)

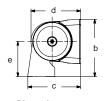
Weight 250g (including cable)

Light Output 550 lumens (White) / 380 lumens (Warm White)

CE, RCM **Approvals**

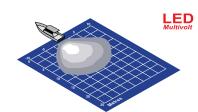






Dimensions a = 136mm 53.0mm 1.93" 1.81" 1.28" 49.0mm d = 46.0mm e = 32.5mm e = 32.5mmf = 90.0mm 3.54" g = 123mm h = 25.0mm 123mm

Sea Hawk-R Bracket Mount



White Light LED Floodlights - Spread

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 98 0 573 -011
9-33V DC	White Housing	2LT 98 0 573 -021



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Warm White Light LED Floodlights - Spread

Voltage	Housing Colour	Part Number
9-33V DC	Black Housing	2LT 98 0 573 -051
9-33V DC	White Housing	2LT 98 0 573 -061





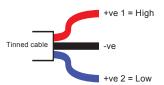
High performance LED floodlights with dual brightness function



Riviera 63FB www.riviera.com.au



Friction mounts allow adjus ent without tools.



Two-Step high/low intensity via ON-OFF-ON switch.



Completely sealed lamp and cable entry. Polished 316 stainless steel bracket.

'Fit and forget' for a long service life

Each lamp is completely sealed and every aspect, material and component is carefully chosen to ensure longevity in the most demanding offshore conditions without compromise.

Hi-tech materials

The lens is precision moulded from high performance Grilamid for strength and durability. The housings are injection moulded from a revolutionary corrosion proof, 'Non-metal' thermally conductive polymer that is highly resistant to degradation, even under harsh UV.

This advanced material draws heat away from internal electronics for reliable long-term operation. Utilising thermal polymer eliminates the requirement for an external aluminium heat sink in this class of floodlight, removing potential surface deterioration and material corrosion risks associated with coated aluminium in the harsh marine environment

Integrated Dimming

A unique high/low light intensity function is standard with every lamp.

Engineered light patterns

Sophisticated optics deliver a broad and even illumination without glare or harsh point sources. Spread lamps illuminate a wide, close-range spread over a cockpit, foredeck or working area. Spot lamps provide a narrower, more concentrated illumination suitable for yacht masts or to determine objects in the water during low speed docking.

Multivolt 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

Pre-wired with three core marine cable

High quality sealed cable assemblies for time saving, completely sealed installations.

Designed and manufactured in New Zealand Sea Hawk lamps carry a 5 year warranty.











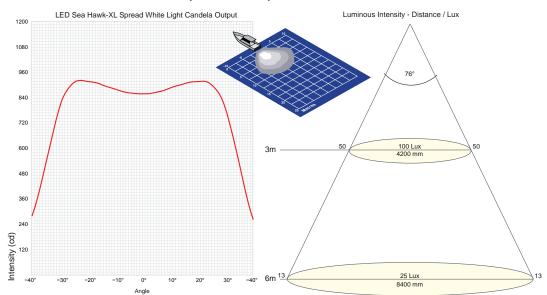








Sea Hawk XL Candela and Lux performance. Spread.





Packaging for aftermarket presentation

Material Description 'Non metal' Thermally conductive polymer housing

Heavy duty Grilamid lens

Bracket Polished 316 stainless steel

5500K (White) / 3000K (Warm White) **Colour Temperature**

Pre-wired with 0.5m of triple core marine cable Cable

Multivolt 9-33V DC **Operating Voltage**

IP 67 - Completely Sealed **Degree of Protection**

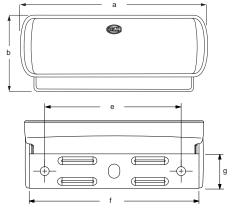
High Intensity Mode 12W (1.00A@12V / 0.50A@24V) **Power Consumption**

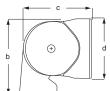
Low Intensity Mode 2W (0.17A@12V/0.08A@24V)

Weight 500g (including cable)

Light Output 750 lumens (White) / 500 lumens (Warm White)

Approvals CE, C-Tick





Dimensions

170mm/ 6.69"

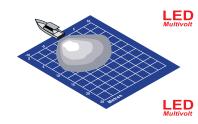
68mm / 2.68" 58mm / 2.28"

d =55mm / 2.17"

120mm/ 4.72" e =

154mm/ 6.06" 30mm / 1.18"

Sea Hawk-XL Bracket Mount



White Light LED Floodlights - Spread

Voltage **Housing Colour** Part Number 9-33V DC Black Housing 2LT 980 950-001 9-33V DC 2LT 98**0 950**-011 White Housing

Warm White Light LED Floodlights - Spread

Voltage **Housing Colour** Part Number 9-33V DC Black Housing 2LT 980 950-101 9-33V DC 2LT 98**0 950**-111 White Housing

Spread pattern applications

Cockpit Foredeck

Working areas

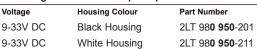


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Sea Hawk-XL Bracket Mount



White Light LED Deck Lamps - Spot



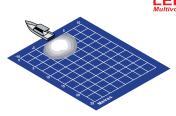


Low speed docking

Forward facing to illuminate objects in the water

Spreader lamps on yacht masts









Evolution 552 www.evolutionboats.com.au

Close range floodlights with the energy saving advantages of Hella marine LED technology.

Multivolt 9-30V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

Pre-wired with marine cable

High quality sealed cable assemblies for time saving, completely sealed installations.

Designed and manufactured in Austria

LED Mega Beam and Module 70 lamps carry a 5 year warranty.













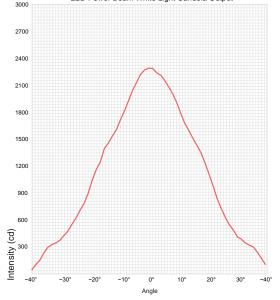


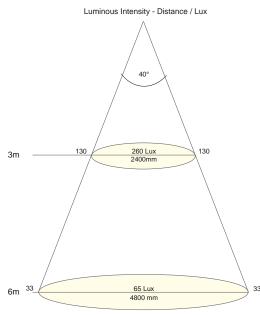
- Completely sealed housing & cable entry

- Pre-wired with marine cable

Module 70 Candela and Lux performance.

LED Power Beam White Light Candela Output







Packaging for aftermarket presentation



Material Description UV and impact resistant plastic front housing

Die cast aluminium body, Glass lens

Bracket 316 stainless steel

Colour Temperature 6500K

Cable Pre-wired with 2.0m of twin core marine cable

Operating Voltage Multivolt 9-30V DC

Degree of Protection IP 67 - Completely Sealed

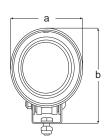
 Power Consumption
 13W (<1.08A@12V / <0.54A@24V)</td>

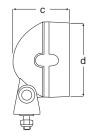
 Weight
 Mega Beam: 750g (including cable)

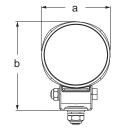
Module 70: 500g (Including cable)

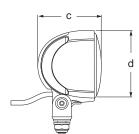
Light Output 800 lumens

Approvals CE









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Mega Beam

Dimensions

a = 110mm / 4.33"

b = 145mm / 5.70" c = 83mm / 3.27"

d = 120mm / 4.72"

Module 70

Dimensions a = 83mm / 3.27"

b = 110mm / 4.33"

c = 74mm / 2.91" d = 83mm / 3.27"

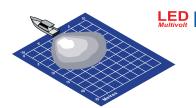


LED Mega Beam Deck Floodlights

Voltage Housing Colour
9-30V DC White Housing
9-30V DC Black Housing

Part Number 1GM 99**6 136**-341 1GM 99**6 136**-351





LED Module 70 Deck Floodlights

 Voltage
 Housing Colour
 Part Number

 9-30V DC
 White Housing
 1GO 996 276-471

 9-30V DC
 Black Housing
 1GO 996 276-452





LED Power Beam

18w 900 Lumen

Powerful illumination in a low profile and compact housing



Haines 725 www.haineshunter.co.nz

Bright white widespread illumination with all the energy saving and proven durability advantages of Hella marine LED technology.

Multivolt 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

Pre-wired with marine cable

High quality sealed cable assemblies for time saving, completely sealed installations.

Designed and manufactured in Austria

Power Beam lamps carry a 5 year warranty.









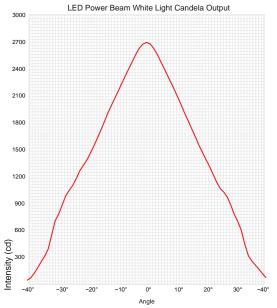


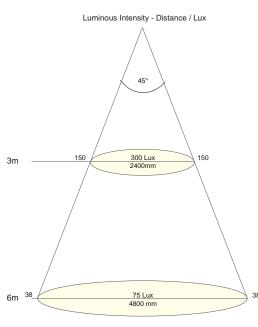


- Completely sealed housing & cable entry

- Pre-wired with marine cable

Power Beam Candela and Lux performance.





Material Description UV and impact resistant plastic front housing

Die cast aluminium body, Glass lens

316 stainless steel **Bracket**

6500K **Colour Temperature**

DT plug conection to twin core marine cable Cable

Operating Voltage Multivolt 9-33V DC

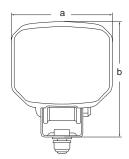
Degree of Protection IP 67 - Completely Sealed

Power Consumption 18W (<1.5A@12V / <0.75A@24V)

Weight 720g (including cable)

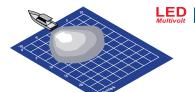
Light Output 900 lumens

Approvals CE





Dimensions: a = 112mm / 4.41" b = 129mm / 5.08" c = 62mm / 2.44"



Power Beam Deck Floodlights

Voltage **Housing Colour** 9-33V DC White Housing 9-33V DC Black Housing

Part Number 1GA 99**6 188**-071 1GA 99**6 188**-081



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AS 5000 LED

60w 5000 Lumen

Heavy duty lighting for the harshest environments

High Performance Ultra Durable No compromise



Hella marine AS 5000 LED floodlights are precision engineered to perform without failure, season after season.

Every aspect, material and component has been carefully selected to ensure longevity in the most demanding environments.

Relentless Hella marine 'test to destruction' development programmes help lift product reliability to new levels. AS 5000 lamps endure the worst of vibration, shock and high impact torture

Powerful and efficient

With over 5000 lumens, AS 5000 lamps offer highly effective illumination with a power consumption of only 60W (5A@12V and 2.5A@24V DC).

Fully sealed and salt water durable

Each lamp is a completely sealed IP 6K 9K unit, impervious to moisture and contaminants. The housing features a unique bonded non-stick coating that will not corrode, discolour, peel or flake even under harsh UV and is highly resistant to cleaning chemicals.

Benchmark light distribution

Hella's optical engineering expertise provides highly effective illumination for working vessels. Wide or narrow light beam patterns offer a crisp white 'close to daylight' 5700K colour temperature. Working under this colour of light reduces the fatigue and eye strain sometimes caused by warmer colour halogen lighting.

Multivolt 9-33V DC

Advanced electronics ensure reliable illumination and lamp protection even under severe voltage fluctuations and low battery voltages.

A reduced power mode activates below 11.6V to prevent battery drain when lights are on but the charging system may not be operating.

Durable in extreme temperaturs

Tested to operate effectively from -40° to +50° Celsius. Integrated thermal protection ensures longevity of the electrical components at the most extreme operating temperatures.

Long term secure installation

A sturdy 316 stainless steel bracket firmly holds the lamp to withstand harsh vibration and impact.

Designed and manufactured in Australia

Hella marine AS 5000 lamps carry a 5 year warranty.















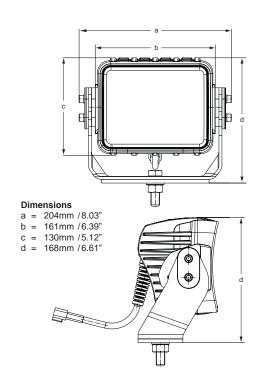




Completely sealed lamp and cable assembly.



The 316 stainless steel adjustable bracket holds the lamp to withstand harsh vibration and impact.



Housing Material Die cast aluminium body. Non-stick surface coating

Lens Material Heavy duty Grilamid 316 stainless steel **Colour Temperature** 5500K (White)

Cable Pre-wired with twin core marine cable with 2 pin DT connector.

Multivolt 9-33V DC **Operating Voltage**

Degree of Protection IP 6K9K - Completely Sealed **Power Consumption** 60W (5A@12V / 2.5A@24V)

Operating Temperature -40°C to + 50°C

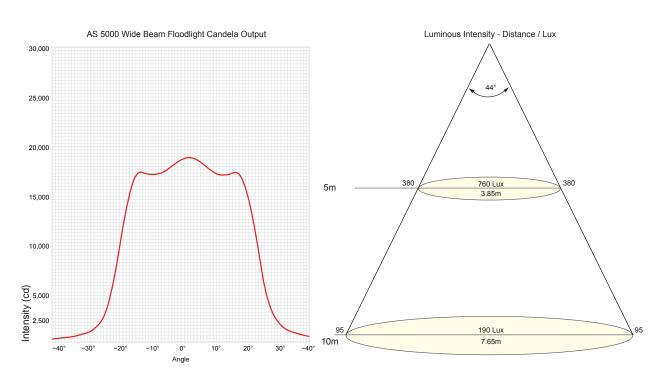
Weight 2.6 Kg (including cable)

Light Output 5000 lumens **Vibration Rating** 750Hz at 3.2mm

Shock Rating 200G

Bracket

CE, C-Tick, CISPR25 Class 2, ISO13766:2006 **Approvals**



LED

White Light LED Floodlight - Wide Beam

Voltage **Housing Colour** Part Number 9-33V DC **Black Housing** 1GA 011 293-081



White Light LED Floodlight - Narrow Beam

Voltage **Housing Colour** Part Number 9-33V DC **Black Housing** 1GA 01**1 293**-091

Accessories for AS 5000 Series

Description 100W 24V IP 67 AC-DC Power Supply 2.5m cable with DT Plug

Part Number 8ES 910 345-041 9.1549.05



Dimensions

200mm / 7.87" 68mm / 2.68" W

40mm / 1.58"

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One HypaLUME providing ample illumination on a 25m work boat.



Heavy duty 316 stainless steel bracket allows vertical angle adjus ent.

A quantum technology leap for commercial vessels, HypaLUME is Hella marine's most powerful floodlight.

Hypa-Performance

The powerful optical system generates over 20,000 lumens for a mere 240W consumption (10A@24V) offering class leading efficacy. With this impressive output, HypaLUME provides usable light comparable to a 400W metal halide fitting for significantly less energy consumption.

Engineered reliability

Completely sealed (IP6K9K) housings are impervious to moisture and contaminants. HypaLUME development programs had endured arduous torture tests of harsh vibration, impact, thermal shock, deluge testing, EMC bursts, accelerated corrosion and harsh chemical exposure.

Proven durable materials

Heavy duty Grilamid is specified for the lens material due to advantages in UV and chemical resistance and exceptionally high impact resistance.

The unique heat-sink housing features a bonded non-stick coating that will not corrode, discolour, peel or flake.

Benchmark working light colour

The wide reaching beam pattern offers crisp white 'close to daylight' 5700K colour temperature. Working under this colour of light reduces the fatigue and eye strain sometimes caused by warmer colour halogen lighting.

Reliable in extreme conditions

Tested to operate from –40° to +50° Celsius with no decrease in output, HypaLUME provides u ost reliability in the most extreme operating temperatures.

Secure installation

A heavy duty 316 stainless steel bracket firmly grips the HypaLUME to withstand harsh vibration and impact while also providing vertical angle adjustment.

Designed and manufactured in Australia

HypaLUME lamps carry a 5 year warranty.



Housing Material Die cast aluminium body. Non-stick surface coating

Lens MaterialHeavy duty GrilamidBracket316 stainless steelColour Temperature5700K (Daylight White)

Cable Pre-wired with 1.8m of twin core marine cable

Operating Voltage Multivolt 18-52V DC

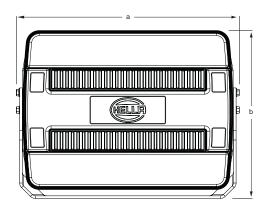
Degree of Protection IP 6K 9K - Completely Sealed

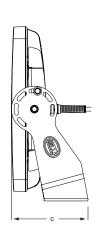
 $\begin{array}{ll} \mbox{Power Consumption} & 240\mbox{W (}10\mbox{A@24V)} \\ \mbox{Operating Temperature} & -40\mbox{°C to + }50\mbox{°C} \\ \end{array}$

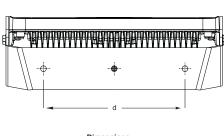
Weight 13.3 Kg (including cable)

Light Output 20000 lumens
Vibration Rating 750Hz at 3.2mm

Approvals CE, C-Tick, CISPR25 Class 2, ISO13766:2006

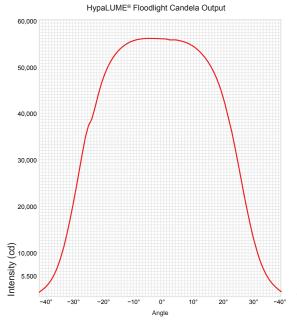


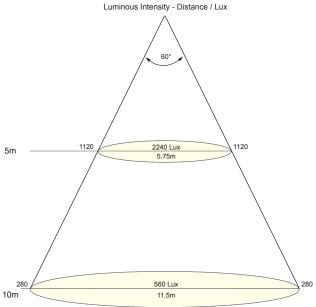




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Dimensions a = 504mm /19.84" b = 380mm /14.96" c = 167mm / 6.58" d = 320mm /12.60"



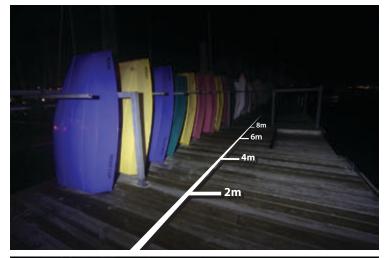




White Light LED Floodlight - Close Beam

Voltage 18-52V DC Housing Colour Black Housing Part Number 1GA 01**1 872**-121

LED Floodlight Comparisons

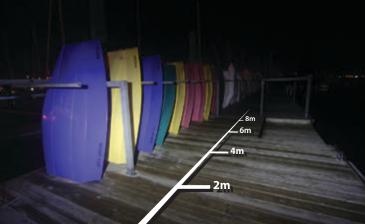


Sea Hawk



Spread.

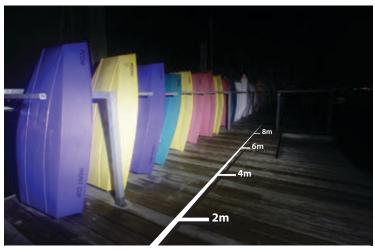




Sea Hawk-R







Sea Hawk-XL

12w 750 Lumen

Spread. High Intensity Mode

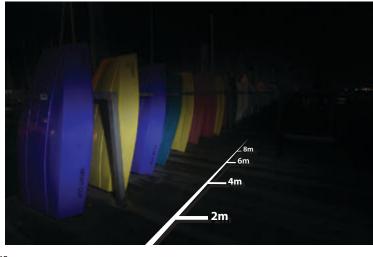


Sea Hawk-XL



Spread. Low Intensity Mode





Hella marine 🕮



Module 70

13w 800 Lumen



Power Beam

18w 900 Lumen



AS 5000 LED

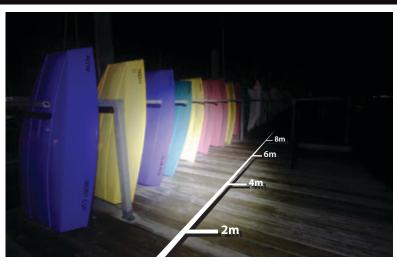
60w 5000 Lumen

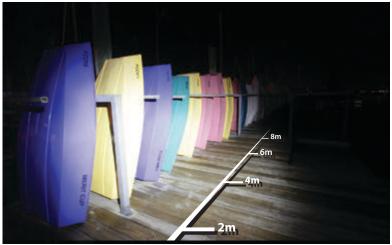


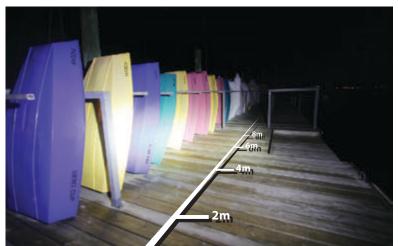
HypaLUME

240w 20,000 Lumen











Introduction



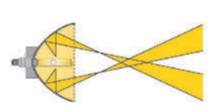
Xenon Gas Discharge (HID) Technology

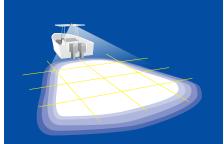
HID Deck Floodlights differ from traditional bulb versions. Instead of light being created by passing current through a filament to make it glow, light is created by an arc in a tube filled with a mixture of xenon gas and metal salts. The light arc is shock proof as there is no filament to break.

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 Discharge (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 the 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 150W (for 12V) or
 300W (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.

6142 and 8534 HID (Xenon) Floodlights





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

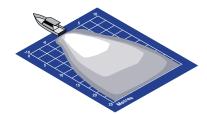
 (ϵ)

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.



UV and impact resistant plastic housing **Housing Description**

Bulb 35W D2S bulb included

Upright mounting Mounting **Degree of Protection** IP 5K4

Maximum Output Approx. 42W (12V) or 41W (24V)

9 - 16V **Operating Voltage** 12V DC 24V DC 18 - 32V Replacement Bulb Type -

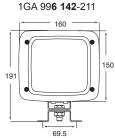
D2S 12 / 24V / 35W Gas discharge bulb 8GH 00**2 091**-001

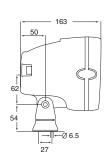
6142 Series HID Deck Floodlights with Integrated Ballast



Voltage	Housing Colour	Part Number
12V	White Housing	1GA 99 6 142 -201
24V	White Housing	1GA 99 6 142 -211

Vol

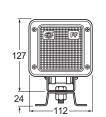


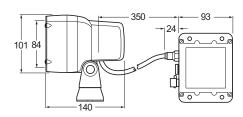


8534 Series HID Deck Floodlights with Remote Ballast









7118 and 8518 Serie



Off White Housing Structured Lens

7118 Series

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

- Hella 'Free Form' reflector technology
- Sealed cable entry gland and pre-wired cable option
- Structured or Crystal Clear lens option
- Extended front edge for lens protection
- 316 Stainless steel mounting hardware

Housing Description UV and impact resistant plastic housing

Bulb 12V / 55W H3 bulb included

Mounting Upright mounting

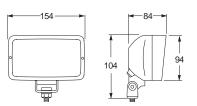
Cable Entry Sealed cable entry gland

Pre-wired twin core marine cable.

Degree of Protection IP X4

Maximum Output 12V / 55W or 24V / 70W

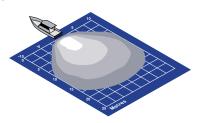
Note - Not suitable for 100W bulbs



Replacement Bulb Type

PK22s

12V / 55W YC1255 24V / 70W YC2470



7118 Series Halogen Deck Floodlights

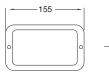
Voltage	Housing Colour	Lens	Cable Entry	Part Number
12V	Off White	Structured Lens	Gromet	1GA 00 7 118 -001
12V	Off White	Structured Lens	Cable Gland	1GA 00 7 118 -051
24V	Off White	Structured Lens	Cable Gland	1GA 00 7 118 -071
12V	Black	Structured Lens	Cable Gland	1GA 00 7 118 -091
12V	Ice White	Clear Lens	Cable Gland	1GA 00 7 118 -081
12V	Ice White	Structured Lens	Cable Gland	1GA 00 7 118- 101



8518 Series - Flush Mount

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

- Seal between frame and attachment surface
- Cable entrance through rubber grommet
- Large 135 x 75mm light aperture
- 316 stainless steel screws





Replacement Bulb Type

PK22s

12V / 55W YC1255 24V / 70W YC2470

Housing Description UV and impact resistant plastic housing
Bulb 12V / 55W H3 bulb included

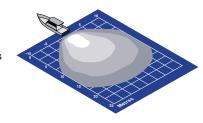
Mounting Recess mount - Front inclination 5 degrees

Cable Entry Terminals at rear of reflector

Degree of Protection IP X4

Maximum Output 12V / 55W or 24V / 70W

Note - Not suitable for 100W bulbs



8518 Series Flush Mount Halogen Deck Floodlight

 Voltage
 Housing Colour
 Lens
 Part Number

 12V
 Off White
 Structured Lens
 1GA 998 518-001

8541 and 8542 Series





8541 Series

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

- 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
- 316 Stainless steel mounting hardware

Housing Description UV and impact resistant plastic housing

Bulb 2 x 12V / 55W H3 bulbs included

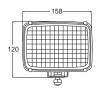
Mounting Upright mounting

Pre-wired with 110mm of cable Cable Entry

Degree of Protection IP 54

Maximum Output 2 x 12V / 55W or 2 x 24V / 70W

Note - Not suitable for 100W bulbs





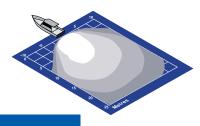
Replacement Bulb Type -

PK22s

12V / 55W 8GH 002 090-131

24V / 70W

8GH 002 090-251



8541 Series Halogen Deck Floodlight

Housing Colour Part Number 12V 1GB 99**8 541**-001 White Housing

Stainless steel bracket for stabilized mounting in areas subject to vibration. 9XD 130 261-001

Bracket





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.

- 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

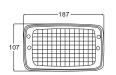
Housing Description UV and impact resistant plastic housing 2 x 12V / 55W H3 bulbs included Bulb

Recess Mount. Pre-wired with 250mm of cable Mounting

Degree of Protection IP 54

Maximum Output 2 x 12V / 55W or 2 x 24V / 70W

Note - Not suitable for 100W bulbs





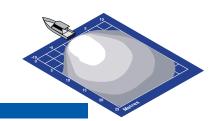
Replacement Bulb Type -

PK22s

12V / 55W 8GH 002 090-131

24V / 70W

8GH 002 090-251



8542 Series Flush Mount Halogen Deck Floodlight

Voltage **Housing Colour** Part Number 12V White Housing 1GB 998 542-001

6361 Series





Sealed cable entry gland with nut.

Pre-wired with 300mm of twin core marine cable.

6361 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.

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

Housing Description UV and impact resistant plastic housing

Bulb 12V / 55W or 24V / 70W H3 bulb included

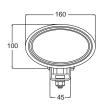
Mounting Upright mounting

Cable Entry 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

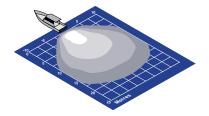




Replacement Bulb Type -

PK22s 12V / 55W 8GH 00**2 090**-131

24V / 70W 8GH 00**2 090**-251



6361 Series Halogen Deck Floodlight

VoltageHousing ColourPart Number12VWhite Housing1GA 996 361-13124VWhite Housing1GA 996 361-391

Stainless steel bracket for stabilized mounting in areas subject to vibration.

9XD 13**0 261**-001

Bracket



6361 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.

- 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

Housing Description UV and impact resistant plastic housing

Bulb 12V / 55W or 24V / 70W H3 bulb included

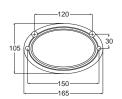
Mounting Recess Mount

Cable Entry 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

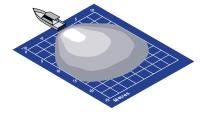




Replacement Bulb Type -

PK22s 12V / 55W 8GH 00**2 090**-131

24V / 70W 8GH 00**2 090**-251



6361 Series Flush Mount Halogen Deck Floodlight

VoltageHousing ColourPart Number12VWhite Housing1GA 996 361-14124VWhite Housing1GA 996 361-401

8502 Series

Hella marine 🕮



8502 Series - Powerful Twin Beam Hand Held Search Light

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

- 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

Installation Spiral cable with cigarette lighter plug

Extended length 3.5m

Degree of Protection IP X6K



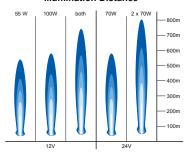
Deck mount base 8HG 99**8 519**-001

8502 Series Hand Held Search Light

Voltage	Housing Colour	Part Number
12V	Black Housing	1H3 99 8 502 -001
24V	Black Housing	1H3 99 8 502 -011



Illumination Distance



Replacement Bulb Type -

PK22s

12V / 55W

8GH 00**2 090**-131

12V / 100W

8GH 00**2 090**-151

24V / 70W

8GH 00**2 090**-251



8502 Series - Powerful Twin Beam Fixed Mount Search Light

Designed for installations through cabin roofs.

- Two reflectors and two halogen bulbs on separate switches
- Two 12V / 55W or 24V / 70W bulbs
- 360° rotation. 30° vertical adjus ent
- 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

Installation Pre-wired with 350mm of cable

Part Number

1H3 998 502-021

1H3 998 502-041

Grommet sealed. O-ring included

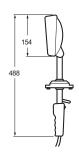
Degree of Protection IP X6K

8502 Series Fixed Mount Search Light

Housing Colour

Black Housing

Black Housing



Illumination Distance

2 x 55W 800m 700m 600m 600m 400m 9300m 9200m 100m

Replacement Bulb Type -

PK22s

12V / 55W

8GH 00**2 090**-131

24V / 70W

8GH 00**2 090**-251

Spare Parts - Hand Held Search Lights



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

Lights

Voltage

12V

24V

1 Light unit 9DS 998 528-001

Spare Parts - Fixed Mount Search Lights



1 Light unit 9DS 998 528-001

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.





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Features:

- 2 Nautical Mile Masthead lamp
- 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 fiber reinforced housing

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

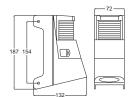
Floodlight pre-wired with 110mm of cable Housing arms flex to fit around mast profile

Degree of Protection IP X4

Maximum Output Deck lamp 12V / 20W

Approvals IMO COLREG, USCG, ABYC A-16,

RINA, RCD



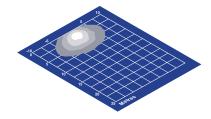
Replacement Bulb Type

Floodlight GX5.3 12V / 20W 8GH 998 529-001 28V / 20W 8GH 998 529-011

Masthead SV8.5 12V / 10W K1210 24V / 10W K2410

8505 Series Masthead / Floodlight Lamps

Voltage	Housing Colour	Part Number
12V	Black Housing	2LT 99 8 505 -001
12V	White Housing	2LT 998 505-011



8505 Series Spare Parts

Floodlight Bulb

12V / 20W 8GH 998 529-001 28V / 20W 8GH 998 529-011

Masthead Bulb

12V / 10W K1210 24V / 10W K2410

8504 Series Masthead / Floodlight Lamps

Hella marine 🕮





8504 Series

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





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Features:

- 3 Nautical Mile Masthead lamp
- 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
- Black or White fibre reinforced housing

Housing Description UV and impact resistant plastic housing

Bulbs 12V / 10W BAY15d and 12V / 55W H3 bulbs included Navigation lamp and Deck Floodlight require separate wiring Mounting

Housing arms flex to fit around mast profile

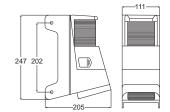
Degree of Protection IP X4

Maximum Output Deck lamp 12V / 55W or 24V / 70W

Note - Not suitable for 100W bulbs

Approvals IMO COLREG, BSH, USCG, ABYC A-16,

RINA, RCD



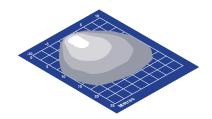
Replacement Bulb Type

Floodlight PK22s 12V / 55W YC1255 24V / 70W YC2470

Masthead BAY15d 12V / 25W EA1225 24V / 25W EA2425

8504 Series Masthead / Floodlight Lamps

Voltage	Housing Colour	Part Number
12V	Black Housing	2LT 99 8 504 -001
12V	White Housing	2LT 99 8 504 -011



8504 Series Spare Parts

'FF' Floodlight Insert

9.1533.01

Lamp housing white 9EL 12**7 083**-071

Floodlight Bulb 12V / 55W YC1255 24V / 70W YC2470

Masthead Bulb

12V / 25W EA1225 24V / 25W EA2425

Halogen and Xenon



Halogen Docking Lights

Flush mounted docking lights with an advanced 'DE' lens that provides a wide light angle for close range illumination forward of the bow.

The principle of a 'DE' lamp is similar to a projector. An ellipsoid reflector aims the light at a convex lens, which projects the light with the designed light distribution.





polished 316 stainless steel

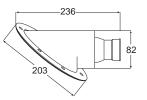
Bulbs 12V / 55W or 24V / 70W H3 bulbs included

Recess mount in bow

Degree of Protection IP 67

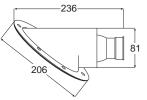
Installation

Maximum Output 12V / 55W or 24V / 70W



Plastic Housing Dimensions (mm)

Halogen Docking Lamps (Pair)							
Voltage	Wattage	Housing Type	Part Number				
12V	42	Plastic	1NB 99 8 546 -801				
24V	42	Plastic	1NB 99 8 546 -811				
12V	42	316 Stainless	1NB 99 8 546 -841				
24V	42	316 Stainless	1NB 99 8 546 -851				



Stainless Housing Dimensions (mm)



Gas Discharge (HID) Docking Lights

High performance Gas Discharge (HID) docking lights with an advanced 'DE' lens that provides greater safety and a very wide illumination forward of the bow with less power consumption than halogen bulb versions. HID docking lamps also provide a longer life for reliability in tough working conditions.

HID docking lights have a light output 2.5 times greater than halogen docking lights, with HID bulbs that provide up to 5 times the service life of halogen bulbs.



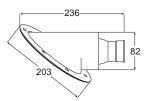
polished 316 stainless steel

Bulbs 35W D2S gas discharge bulbs included

Installation Recess mount in bow

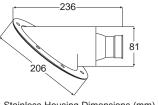
Degree of Protection IP 67

Maximum Output Approx. 42W (12V) or 41W (24V)



Plastic Housing Dimensions (mm)

Xenon I	Xenon Docking Lamps (Pair)								
Voltage	Wattage	Housing Type	Part Number						
12V	42	Plastic	1NB 99 8 546 -821						
12V	42	316 Stainless	1NB 99 8 546 -861						



Stainless Housing Dimensions (mm)





LED Interior and Exterior Lighting



LED Interior and Exterior Lighting



LED Technology

Hella marine LED interior, exterior and courtesy lamps provide efficient, power saving and ultra durable illumination for reliability and safety at sea.

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 energy savings.

As an example, Hella marine DuraLed heavy duty 36 LED lamps use less than 15% of the power required to run a 60W fluorescent lamp, yet provide a considerably wider, whiter and more intense light pattern.

Ultra low heat signature for improved safety

All Hella marine LED lamps feature an ultra low heat signature due to their low power consumption. This provides many safety and installation advantages as the risks of heat damage caused by traditional halogen lamps are completely eliminated. Hella marine LED lamps can be installed almost anywhere onboard, directly onto timber, fabrics and lightweight composite materials.

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.

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.



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. Multivolt LED lamps are also reverse polarity and spike protected for enhanced durability even under severe voltage fluctuations.



Electromagnetic Compatibility (EMC)

All Hella marine products are designed to suppress electromagnetic interference, complying with the emission and immunity limits prescribed in international standards. This protects the radio, communication, navigation and other electrical equipment onboard from possible interference with our products. Where applicable, Hella marine products carry CE marking for European Union legislation, and the C-Tick mark for Australian & New Zealand requirements.



C-Tick



C-Tick is the Australian & New Zealand EMC compliance mark administered by the Australian Communications and Media Authority (ACMA) & Radio Spectrum Management (RSM) New Zealand, and will be transitioning to the RCM mark by 1st March, 2016. Hella marine products will remain compliant to these requirements throughout the transition period and beyond.

RCM

	Series Name / Series Number	Outside Diameter	Installation Type	Cut out Diameter	Beam Angle	Peak Lux @ 1M	Peak Lux @ 2M	Power Consumption	Incandescent Equivalent*	Page No.
	Ponui 0770 & 0771	70mm	Surface	n/a	32° Spread	105 Lux White	28 Lux White	< 0.8W < 0.07A@12V	10W Halogen	70
	Tiri 0596 & 0597	60x60mm	Recess	50mm	32° Spread	105 Lux White	28 Lux White	< 0.8W < 0.07A@12V	10W Halogen	72
	Tiri 0596 & 0597	60x60mm	Recess	50mm	15° Spot	370 Lux White	92.5 Lux White	< 0.8W < 0.07A@12V	10W Halogen	72
	SpotLED 3980	75mm	Recess	50mm	13° Spot	450 Lux White	112.5 Lux White	< 2.5W < 0.21A@12V	10W Halogen	74
	Rakino 9599 & 0956	75mm	Recess	50mm	32° Spread	105 Lux White	28 Lux White	< 0.8W < 0.07A@12V	10W Halogen	72
(1)	Rakino 9599 & 0956	75mm	Recess	50mm	15° Spot	370 Lux White	92.5 Lux White	< 0.8W < 0.07A@12V	10W Halogen	72
	EuroLED 95 0940	95mm	Recess	73mm	30° Spread	380 Lux Warm white	95 Lux Warm white	< 4.0W < 0.33A@12V	20W Halogen	76
	EuroLED 115 0820 & 0828	115mm	Recess & Surface	90mm	36° Spread	385 Lux Warm white	96 Lux Warm white	< 4.0W < 0.33A@12V	20W Halogen	78
	EuroLED 130 9820, 9950/51	130mm	Surface	n/a	32° Spread	475 Lux White	119 Lux White	4.0W 0.33A@12V	20W Halogen	82
	EuroLED 150 0630 & 0631	150mm	Recess & Surface	124mm	32° Spread	475 Lux White	119 Lux White	4.0W 0.33A@12V	20W Halogen	80
	Waiheke 0681 & 9076	250x50mm	Recess	240x40mm	26° Spot	450 Lux White	112.5 Lux White	< 2.0W < 0.17A@12V	20W Halogen	68
	Surface Mount 0881 Interior	285x25mm	Surface	n/a	42° Spread	205 Lux White	51 Lux White	< 3.0W <0.25A@12V	20W Halogen 7W Fluorescent	90
90	DuraLed 12 9700 & 0704	140x65mm	Surface	n/a	120° Spread	60 Lux White	15 Lux White	< 2.5W <0.20A@12V	20W Halogen 7W Fluorescent	92
5 9	DuraLed 20 0608	177x100mm	Surface	n/a	64° Spread	390 Lux White	97.5 Lux White	< 4.0W <0.33A@12V	20W Halogen 11W Fluorescent	94
5 9	DuraLed 36 9037	177x100mm	Surface	n/a	64° Spread	600 Lux White	150 Lux White	< 7.0W <0.51@12V	35W Halogen 14W Fluorescent	94
5 9	DuraLed 50 0604	220x96mm	Surface	n/a	64° Spread	780 lux White	195 Lux White	< 10.0W <0.80A@12V	50W Halogen 18W Fluorescent	94



Riviera 63 Enclosed FB www.riviera.com.au

Welcome to the future of ultra efficient illumination

Hella marine LED lighting products are sophisticated opto-electronic devices designed for durable, energy efficient, maintenance free operation. Recent quantum leaps in the luminous intensity of LEDs per watt have allowed marine lighting systems to develop significantly to effectively illuminate a vessel's interior.





Quality LED lighting provides many significant advantages over traditional filament based sources. Significantly reduced power consumption, increased reliability, reduction in radiated heat and attractive ambient effects are all benefits of modern LED lighting systems. The following are key considerations when selecting LED lighting for marine interior and exterior applications.

Power saving on board

The single most influential driver for LED technology on most yachts and powerboats is the considerable power saving on offer compared to incandescent lamps. Lighting systems are a major part of a vessel's electrical architecture where consumption can be dramatically reduced. The opportunity to save hundreds of amp hours is available now.

As a recent example, the entire Hella marine LED downlighting system specified for a Riviera 43ft flybridge sportfisher draws less than 2 Amps. To illuminate the same interior layout with halogen lamps would have totalled over 18 Amps. The reduction in cable size and weight together with the safety aspects of an almost zero heat signature was also highly beneficial.

The majority of the lamps specified for the Riviera 43 system are the compact 9596 series warm white LED downlights. Each lamp consumes less than 0.8W yet produces the equivalent light output of a 10W halogen lamp. Such efficiency is class leading.

Hella marine reliability

Due to their solid state nature, LEDs do not have filaments to break, however LEDs do require precise current regulation and voltage protection to provide long term reliability. For LED lighting manufacturers, many design and engineering milestones are required to produce durable products that provide ongoing performance in marine applications. Hella marine LED products feature several key advantages such as completely sealed housings, sealed cable entries, effective





electronic protection, shock, vibration and impact resistant components that all contribute towards outstanding reliability. Compared to incandescent lighting, where a filament inside a bulb may break at any moment, Hella marine LED lighting is 'fit and forget'.

Many LED lamp manufacturers claim operating lifetimes of 50,000 or 100,000 hours, however in many cases these claims are generalized. The high power LED devices are often too new to have been thoroughly tested for such periods. These lifetime estimates are often based on LED component specifications from the device manufacturer rather than the life of the complete lamp in a marine installation.

In the harsh marine environment, salt air corrosion to circuit boards, light degradation due to excessive heat, vibration fatigue, shock loads, voltage fluctuations and low battery voltages all contribute to reduce the operating life of LED lamps without thorough engineering and electronic protection. The supplier's warranty policy, integrity and track record is often a more accurate benchmark on the lifetime and quality of the LED lamp under consideration.

Colour Temperature and Rendering

Until recently, the lack of high quality white LED devices with sufficient intensity has been the major factor preventing the acceptance of LEDs for general marine lighting purposes. LEDs had a reputation for appearing 'cold' and 'blue' due to there phosphorous coating heritage. However today's high efficacy devices can rival traditional incandescent light sources for colour and ambience.

When selecting LED interior lighting, colour temperature is an important consideration. Colour temperature is measured in Kelvin and describes the effect of heating an object until it glows incandescently. The emitted radiation, and apparent colour changes in proportion to the temperature; envisioned when considering hot metal in a forge that glows red, then orange, and then white as the temperature increases.

Hella marine describes higher colour temperatures (>5000K or more) as 'cool' white, and lower colour temperatures (<3500 K range) as 'warm white'. 'Neutral white' is in the 4200K range. Cool white is recommended for visual tasks, work areas such as engine rooms, and exterior lighting. Warm white light is suggested for interior spaces as it adds life and vibrancy to people and objects, is considered more flattering to skin tones or fabrics, and makes food look fresh and attractive.

These colour choices should only be an approximate consideration however. Cool white will accentuate blue and green hues in certain fabrics and surfaces, and where

Colour temperature examples

1800K	4000K	5500K	8000K	12000K	16000K
	1850 K	Candle			
	2800 K	Halogen G4	Bulb (Incand	descent lamp)	
	3000 K	Hella marine	e Warm Whit	e LED Downlig	ıht
	5000 K	Hella marine	e White LED	Downlight	
	5200 K	Hella marine	e White Euro	LED lamp	
	6500 K	Hella marine	e LED Mega	Beam Floodlig	ht
	6500 K	Daylight			



White light



Warm white light





Enhancing interiors with attractive colour matched illumination.

Hella marine offers highly efficient LED lamps with colour temperatures in the warm white range of 3000K, or white range of 5000K.

Specialist LED selection and quality control ensures the colour temperature and colour rendering performance is matched across similar series. The result is a uniform colour temperature and ambience throughout a vessel when different lamps are installed.



there are stainless steel or gel coat surfaces. Lighting designers may specify cool white for galley areas and warm white where there is an abundance of varnished timber work instead of high gloss gel coat surfaces.

Light Output

For an effective comparison of the different products from marine LED manufacturers, many factors must be considered. The best lamp for a given application is no longer the one that solely meets a style requirement. Today, power consumption, efficiency, output and beam angle must be considered together with light colour, shape, and the aesthetics and finish of the housing itself.

The following performance data is worth considering -

Luminous Flux

Measured in Lumens (Im), luminous flux describes the total quantity of light produced from a lamp. The higher the lumen count, the more intense the light output.

Luminous intensity

Measured in Candela (cd), luminous intensity is the luminous flux at a particular angle from the light source. Peak candela occurs at 0 degrees, i.e. directly below a lamp.

Illuminance

Measured in Lux (lx), Illuminance is equal to luminous flux divided by the illuminated area. One lux is equal to one lumen per square meter.

Luminous Flux (Lumens) / Area
= Illuminance (Lux).
or
Illuminance (Lux) x Area
= Luminous Flux (Lumens)

If both the area to be illuminated and the desired level of illumination are known, the total number of lumens required can be calculated. Divide the total lumens by the output of the LED lamp under consideration to determine the number of fixtures required to deliver the desired light output.

E.g., A powerboat salon of 10 square meters and the desired illumination level is 120 Lux, a total of 1200 lumens are required.

If the LED lamp under consideration has a luminous flux of 80 lumens, 15 lamps will be required (1200 / 80 = 15).

For further comparisons it is also important to consider the beam angle of an LED lamp, and the lux levels available at varying distances from the device. Narrow light beams may provide effective intensity directly under the fitting, but may not evenly illuminate an interior as the light may be too narrow with many shadows between effectively lit areas.



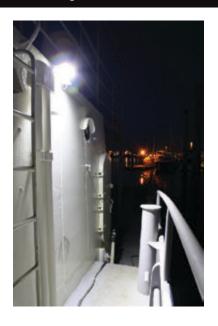
Hella marine Light Performance Diagrams

No formula exists for lighting designers to directly correlate the luminous flux of the LED component used or the power consumption of the LED device to the performance of the entire LED luminaire. While the lumen output of the LED does describe how much luminous flux is generated, it does not indicate how effectively that light is distributed. The Hella marine light performance diagrams show output and spread in two formats. The Candela curves show peak candela across a range of angles and illustrate the light pattern and peak intensity according to the scale used. (A uniform scale for all diagrams is used to aid product comparisons)

The Lux charts show the spread of light, calculated first from the candela curve by determining the angle where half of the peak candela output occurs.

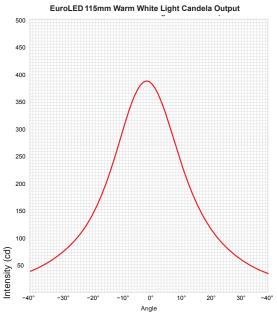
In Fig 1 below, peak candela is 385cd (measured at 0 degrees). Half of this output (192.5cd) occurs at +/- 18.0 degrees, thus the lamp has a spread of 36 degrees. While there will be light beyond these angles, the majority of light will be occur inside the range shown.

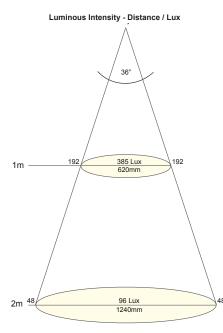
The lux data shows how much light is cast upon a surface at a given distance. The diagrams indicate peak lux (at 0 degrees), lux at the specified angle and the approximate length of surface area that will be illuminated inside the range shown.



Recommended Lux	Values
Area	Lux
Engine room	200-250
Galley surfaces	150-250
Heads	150-200
Salon	100-150
Companionway	70-100
Cabins	70-100
Flybridge	70-100
Cockpit	70-100

Fig 1. Hella marine EuroLED 115 series Warm White LED Downlight Candela and Lux performance





Hella marine Rakino series LED downlight (Spread) Compared to 8508 series halogen downlight. 500 LED Downlight Power consumption 450 0.8 Watts 400 350 300 250 200 Halogen Downlight 150 Power consumption 10 watts 100 ntensity (cd) Angle

Southstar 37 www.salthouseboats.com



Efficacy

Like efficiency, the efficacy of an LED lamp is the amount of light it produces per unit of electrical power it consumes (lumens per watt). The higher the lumens per watt, the higher the efficiency.

E.g. A single Hella marine 9599 series white LED downlight consumes less than 0.8W and produces around 80 lumens. 80 / 0.8 = 100 lumens per watt.

It may also be an interesting comparison to divide the luminous flux of a lamp by its cost to derive lumens per dollar. The more lumens per dollar (*flux per bucks*), the more light for your inves ent.

Also, it is important to determine that the efficacy of the LED lamp is measured as the devices total efficacy, not the efficacy of only the LED(s) employed. Power consumed to run an electronic power supply driving and controlling the LED(s) is always a contributor to the lamps total consumption.

Heat reduction and thermal management

With the power saving benefits of efficient LED based devices also comes heat reduction benefits. The sometimes dangerously high temperatures of 10W and 20W halogen lamps onboard can be eliminated with high efficiency LED technology. This allows boat builders and designers a wide scope of installation possibilities where the air cavity behind incandescent lamps, traditionally reserved for cooling, is no longer required. Efficient LED lamps can be mounted into solid surfaces and composite structures without risk of fire or heat damage to surrounding materials.

Well engineered thermal management of an LED device is essential for long-term durability. A common misconception is that LED's do not generate heat. LEDs consume power and some of this power is also converted into heat, even in the most energy efficient LEDs. In contrast to incandescent lamps however LED's like to 'run cold'. As a rule of thumb, the hotter an LED runs the faster it will degrade. A lower, and in extreme cases much lower light performance will result.

High performance 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. Hella marine LED lamps will operate 'cool' or 'slightly warm' to the touch after many hours of operation.



Riviera 43FB www.riviera.com.au

EuroLED series Lens and Optic engineering

Precision engineered lens and optic combinations on powerful single LED lamps such as the 0630 and 0631 series EuroLED lamps are essential for efficient performance.

The optics work to efficiently capture and distribute light from a highly intense single point source and provide a wide and uniform light pattern without glare or eye discomfort.



Hella marine thermal management expertise, coupled with proven optics and electronic design, ensures the long term durability with minimal degradation over many years of service.

Lens and Optic Technology

To maximise the ever increasing efficacy of advanced LEDs, efficient optic design is essential to capture and spread the available light and to evenly illuminate areas on board.

Unlike incandescent light sources, LED devices begin with a directional light pattern. The goal for optics designers, working an application such as interior down lighting, is to create optics and lens patterns that produce an effective spread of homogeneous illumination throughout the interior. This even spread of light is often more important than how intense a lamp looks when viewed straight on

All Hella marine LED lamps use efficient optics, lens designs or Free-Form reflector technology to accurately capture and distribute large percentages of available light from the LED source(s).

Examples include:

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



Tiara 4200 www.tiarayachts.com

- EuroLED lamps employ an finely machined optic and lens combination to provide an even spread of bright white light with minimum light losses.
- 9599 series LED downlights with powerful 'Spot' or 'Spread' light distribution patterns without glare.

Lens, Optic Technology and Eye Safety

To take advantage of the ever increasing efficacy of the most advanced LEDs, efficient optic design is essential to capture and spread the available luminous flux emitted by the LED and to evenly illuminate areas.

With 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 when viewed directly.

It is desirable for the entire lens area of a lamp to be evenly illuminated via an efficient optic rather than using a multiple of LEDs without any optic. Easily visible LEDs inside a luminaire without any optic or lens protection can cause a degree or even significant eye discomfort if viewed directly.

Costs

Quality LED interior and exterior lamps have shifted lighting systems from an incandescent globe based inside a housing or reflector to complex engineered optoelectronics devices. These devices now incorporate advanced drive circuits, spike and over voltage protection, optics, lenses, plus the LED source itself.

As a result, the added features and benefits of effective LED lighting do carry higher costs compared to incandescent lamps. However, for many applications the substantial power savings, long term reliability and improved safety advantages are a convincing value proposition for astute owners and operators.



Riviera 63FB www.riviera.com.au



New Zealand Coastguard Rayglass Protector 850 www.rayglass.co.nz

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.



'Fit and Forget' LED Reliability.

Hella marine heavy duty lamps.

Efficient and reliable LED lighting for engine rooms, machinery spaces, anchor lockers, storage areas, decks and more. Advanced optic and lens combinations provide wide spread illumination supported by sophisticated electronic protection and robust, completely sealed housings. Hella marine LED products are the proven 'Fit and Forget' choice for illuminating commercial and recreational vessels.

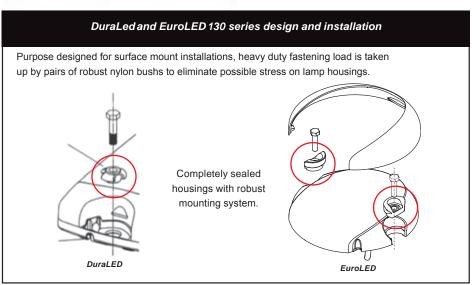
















Energy saving chart table lighting for interior applications



Energy efficient lighting for a variety of interior applications including chart table and navigation area lighting, berth lighting and adjustable reading lights.

Available in single red or white LED light or dual colour red and white LED versions with integrated dimming via a rotary switch built into the head.











Housing Description UV and impact resistant plastic Arm material Single colour - Coated steel arm

> Dual colour red/white - 316 stainless steel arm Pre-wired with 120mm of twin core cable

Operating Voltage Multivolt 9-31V DC

Power Consumption < 2W (<0.16A@12V / <0.08A@24V)

Degree of Protection

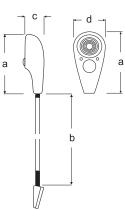
Cable

Weight 150mm - 130g (including cable)

400mm - 230g (including cable)

Approvals





Dimensions

104mm / 150mm / 5.91" 400mm / 15.75"

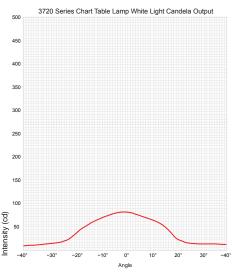
36mm / 1.42'

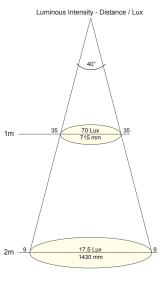
46mm / 1.81'



Dual colour LED chart table lamps feature a rotary dial for on/off red/white light control and dimming.

3720 Series Chart Table Candela and Lux performance. White light.







Packaging for aftermarket presentation

LED SALLENS

White / Red Light Chart Table LED Lamps

Shaft Length **Black Cover** 6" / 150 mm 2JA 343 720-522 16" / 400 mm 2JA 34**3 720**-622



White Light Chart Table LED Lamps

Shaft Length Black Cover White Cover 6" / 150 mm 2JA 34**3 720**-022 2JA 343 720-012 16" / 400 mm 2JA 34**3 720**-122 2JA 34**3 720**-112





Trou Eight Shart radio === =ampo		
Shaft Length	Black Cover	White Cover
6" / 150 mm	2JA 34 3 720 -052	2JA 34 3 720 -042
16" / 400 mm	2JA 34 3 720 -152	2JA 34 3 720 -142





X-50 www.x-yachts.com

Completely sealed lighting ideal for a variety of applications, from interior downlighting to cockpit illumination.

Power consumption is very low at less than 2.0W (<0.17A@12V / <0.08A@24V) offering substantial energy saving compared to incandescent lighting. The surface temperature is very cool due to the low current draw.

All Waiheke lamps provide comfortable colour temperatures in white and warm white with excellent colour rendering performance. The light colour matches an equivalent Hella marine Rakino series LED downlight for consistent illumination and coordinated ambience throughout a vessel.

500mm of marine cable is pre-wired into each lamp for absolute water tightness and reliable electrical connections.









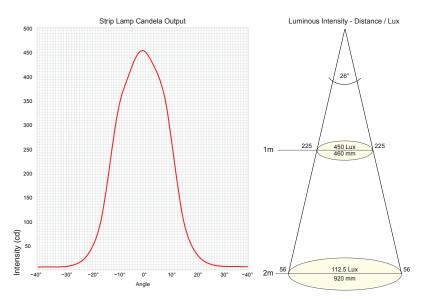


- Completely sealed housing



without visible fastenings.

Waiheke Candela and Lux performance. White light.





Lens Material
Colour Temperature
Dimming
Cable

Operating Voltage
Power Consumption
Degree of Protection

Mounting Weight

24V DC

UV resistant enhanced impact acrylic 5000K (White) 3000K (Warm White) Hella marine Dimmer 5XA 99**8 572**-001

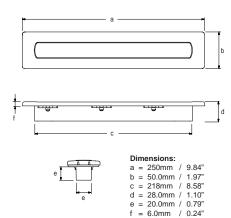
Pre-wired with 500mm of twin core marine cable 12V DC or 24V DC

< 2.0W (<0.17A@12V / <0.08A@24V)

IP 67 - Completely Sealed

Stainless steel screws included

Stainless rim versions - 165g (including cable)
Wide rim versions - 100g (including cable)
No rim versions - 85g (including cable)



0681 Series 316 Stainless Steel Rim lamps

Woltage Rim Type / Finish Part Number 12V DC Wide / Stainless Rim 2JA 980 681-001

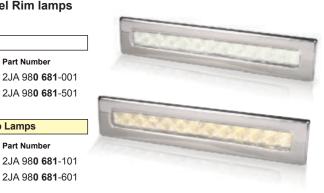
Multi purpose Warm White LED Strip Lamps

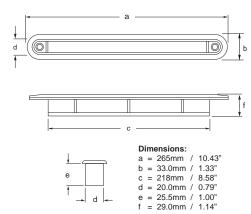
Wide / Stainless Rim

 Voltage
 Rim Type / Finish
 Part Number

 12V DC
 Wide / Stainless Rim
 2JA 980 681-101

 24V DC
 Wide / Stainless Rim
 2JA 980 681-601





9076 Series Wide Rim lamps

Multi purpose White LED Strip Lamps

 Voltage
 Rim Type
 Part Number

 12V DC
 Wide (Gasket included)
 2JA 959 076-511

 24V DC
 Wide (Gasket included)
 2JA 959 076-611

Multi purpose Warm White LED Strip Lamps

 Voltage
 Rim Type
 Part Number

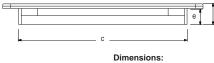
 12V DC
 Wide (Gasket included)
 2JA 959 076-561

 24V DC
 Wide (Gasket included)
 2JA 959 076-551



0681 Series No Rim lamps







a = 257mm / 10.12' b = 20.0mm / 0.79"

b = 20.0mm / 0.79" c = 218mm / 8.58"

d = 26.0mm / 1.02" e = 20.0mm / 0.79"

Multi purpose White LED Strip Lamps

 Voltage
 Rim Type
 Part Number

 12V DC
 No Rim (No gasket)
 2JA 980 681-051

 24V DC
 No Rim (No gasket)
 2JA 980 681-551

Multi purpose Warm White LED Strip Lamps

 Voltage
 Rim Type
 Part Number

 12V DC
 No Rim (No gasket)
 2JA 980 681-151

 24V DC
 No Rim (No gasket)
 2JA 980 681-651





Quality brass reading lamps with efficient LED technology and timeless styling



Riviera 43FB www.riviera.com.au

Timeless brass housings combine with energy efficient Hella marine LED technology in a range of attractive and 'cool to touch' reading lamps.

Power consumption is less than 0.8W per lamp. (<0.07A@12V / <0.03A@24V) Hella marine optics provide a uniform distribution of light without glare or eye strain.

A further benefit of the low power consumption is the 'cool to touch' lamp surface, effectively reducing the risks associated with high temperature incandescent reading lamps on board.

The light colour exactly matches an equivalent Hella marine Rakino or Waiheke series LED lamp for consistent illumination and coordinated ambience throughout a vessel.

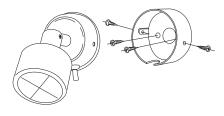
Surface finish options include bright chrome, satin nickle chrome or gold plated brass. The brass arm and knuckle offers adjustable swing and pitch to achieve optimum light angles.





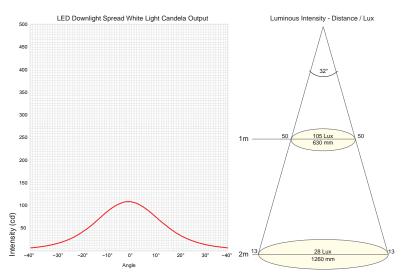






- Bulkhead mount via plastic mounting cup
- Lamp is pre-wired with marine cable

LED Reading Lamp Candela and Lux performance. White light.



Lens Material UV resistant enhanced impact acrylic

Lamp Body Material

Lamp Body Surface Finish Bright Chrome, Satin Nickle Chrome or Gold Plated

Colour Temperature 5000K (White) / 3000K (Warm White)

Dimming Dimmed via Hella marine 2 Group Dimmer 5XA 998 572-001

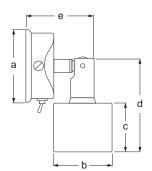
Cable Pre-wired with single core marine cable.

Operating Voltage 12V DC or 24V DC

< 0.8W (<0.07A@12V / <0.03A@24V) **Power Consumption**

Degree of Protection Completely sealed light engine

Weight 250g (including cable)



Dimensions:

a = 70 mm / 2.76" b = 55 mm / 2.17"

c = 36 mm / 1.42" d = 75 mm / 2.95"

e = 65 mm / 2.56"





0770 Series Reading Lamps

White Light LED Reading Lamps with Switch			
Voltage	Surface Finish & Material	Part Number	
12V DC	Bright Chrome Brass	2JA 98 0 770 -201	
12V DC	Satin Chrome Brass	2JA 98 0 770 -211	
12V DC	Gold Plated Brass	2JA 98 0 770 -221	
24V DC	Bright Chrome Brass	2JA 98 0 770 -301	
24V DC	Satin Chrome Brass	2JA 98 0 770 -311	
24V DC	Gold Plated Brass	2JA 98 0 770 -321	



0771 Series Reading Lamps

24V DC

Warm White Light LED Reading Lamps with Switch			
Voltage	Surface Finish & Material	Part Number	
12V DC	Bright Chrome Brass	2JA 98 0 771 -201	
12V DC	Satin Chrome Brass	2JA 98 0 771 -211	
12V DC Gold Plated Brass		2JA 98 0 771 -221	
24V DC	Bright Chrome Brass	2JA 98 0 771 -301	
24V DC	Satin Chrome Brass	2JA 98 0 771 -311	

2JA 98**0 771**-321

Gold Plated Brass





Compact LED downlights offering class leading efficiency and reliability



Formula Icon 54 www.formulacruisers.co.nz

Completely sealed with an ultra low power consumption of less than 0.8W, Hella marine Rakino and Tiri series LED downlights offer class leading efficiency and highly effective illumination.

The lamps also run very cool due to their low current draw to provide substantial power saving benefits compared to incandescent lighting.

Advanced Hella marine lens and optic designs provide intense light without glare or eye strain. Two beam angle options are available, a 15° Spot or 32° Spread beam.

The Spot lamp (Peak light angle at 15°) is ideal for installations where the first surface requiring illumination is 1 meter or more from the lamp. Spread lamps (Peak light angle at 32°) are ideal for softer light where the first surface to be illuminated is less than 1 meter from the lamp.

Each lamp is completely sealed and can be installed almost anywhere on board, interior or exterior, wet or dry. The ultra low heat signature will not cause damage to surrounding materials.

Available in 12V or 24V DC versions, these LED lamps can be dimmed and controlled with the Hella marine Dimmer (5XA 998 572-001).









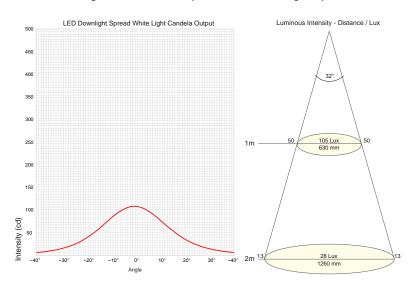


- Completely sealed housing
- Pre-wired with marine cable

LED Downlight Candela and Lux performance. White light. Spot.

LED Downlight Spot White Light Candela Output Luminous Intensity - Distance / Lux 450 450 450 450 450 450 460 270 mm 46 282.5 Lux 560 mm

LED Downlight Candela and Lux performance. White light. Spread.





Packaging for aftermarket presentation

Lens Material UV resistant enhanced impact acrylic

Rim Material UV resistant plastic. 316 stainless steel (Round lamps only)

Colour Temperature 5000K (White) / 3000K (Warm White)

Dimming Dimmed via Hella marine Dimmer 5XA 998 572-001

Cable Pre-wired with 120mm of single core marine cable

Operating Voltage 12V DC or 24V DC

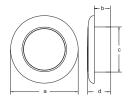
Power Consumption < 0.8W (<0.07A@12V / <0.03A@24V)

Degree of Protection IP 67 - Completely Sealed

Mounting Stainless steel screws included

Weight 45g (including cable)





Dimensions

a = 75.0 mm / 2.95" with plastic rim 72.0 mm / 2.83" with stainless steel rim

b = 18.5 mm / 0.73"

c = 50.0 mm / 1.97"

d = 27.0 mm / 1.06"

Spread Pattern

White Light LED Downlights - Spread			
Voltage	Rim Finish	Part Number	
12V DC	Polished stainless rim	2JA 95 9 599 -051	
12V DC	White plastic rim	2JA 95 9 599 -001	
24V DC	Polished stainless rim	2JA 95 9 599 -151	
24V DC	White plastic rim	2JA 95 9 599 -101	

Warm White Light LED Downlights - Spread

Voltage	Rim Finish	Part Number
12V DC	Polished stainless rim	2JA 95 9 596 -051
12V DC	White plastic rim	2JA 95 9 596 -001
24V DC	Polished stainless rim	2JA 95 9 596 -151
24V DC	White plastic rim	2JA 95 9 596 -101

Red Light LED Courtesy Lamps - Spread

Voltage	Rim Finish	Part Number
12V DC	Polished stainless rim	2XT 9 80 507 -371
12V DC	White plastic rim	2XT 9 80 507 -381
24V DC	Polished stainless rim	2XT 9 80 508 -301
24V DC	White plastic rim	2XT 9 80 508 -321





Spot Pattern

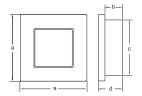
White Light LED Downlights - Spot

Voltage	Rim Finish	Part Number
12V DC	Polished stainless rim	2JA 95 9 599 -551
12V DC	White plastic rim	2JA 95 9 599 -501
24V DC	Polished stainless rim	2JA 95 9 599 -651
24V DC	White plastic rim	2JA 95 9 599 -601

Warm White Light LED Downlights - Spot

Voltage	Rim Finish	Part Number
12V DC	Polished stainless rim	2JA 95 9 596 -551
12V DC	White plastic rim	2JA 95 9 596 -501
24V DC	Polished stainless rim	2JA 95 9 596 -651
24V DC	White plastic rim	2JA 95 9 596 -601





Dimensions

a = 60.0 mm / 2.36" b = 16.0 mm / 0.63" c = 50.0 mm / 1.97" d = 22.0mm / 0.87"



White Light LED Downlights - Spread

Voltage	Rim Finish	Part Number		
12V DC	Chrome plated rim	2JA 98 0 596 -031		
12V DC	White plastic rim	2JA 98 0 596 -001		
24V DC	Chrome plated rim	2JA 98 0 596 -131		
24V DC	White plastic rim	2JA 98 0 596 -101		



Voltage	Rim Finish	Part Number
12V DC	Chrome plated rim	2JA 98 0 597 -031
12V DC	White plastic rim	2JA 98 0 597 -001
24V DC	Chrome plated rim	2JA 98 0 597 -131
24V DC	White plastic rim	2JA 98 0 597 -101





Spot Pattern

White	Light L	FD	Downlights	- Snot
AAIIIIG	Ligitt		Downinging	- Spot

Voltage	Rim Finish	Part Number
12V DC	Chrome plated rim	2JA 98 0 596 -531
12V DC	White plastic rim	2JA 98 0 596 -501
24V DC	Chrome plated rim	2JA 98 0 596 -631
24V DC	White plastic rim	2JA 98 0 596 -601

Warm White Light LED Downlights - Spot

Voltage	Rim Finish	Part Number
12V DC	Chrome plated rim	2JA 98 0 597 -531
12V DC	White plastic rim	2JA 98 0 597 -501
24V DC	Chrome plated rim	2JA 98 0 597 -631
24V DC	White plastic rim	2JA 98 0 597 -601

Dual Colour SpotLED









Energy saving LED spot lamps featuring an innovative ring of ambient light.



Riviera 43FB Sportfisher www.riviera.com.au

Switching between the SpotLED's white light main beam or the ambient colour ring offers a unique illumination option.

Consumption is less than 2.5W (<0.18A@12V), offering more than 75% power saving compared to a 10W G4 halogen lamp.

Each lamp 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. 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.









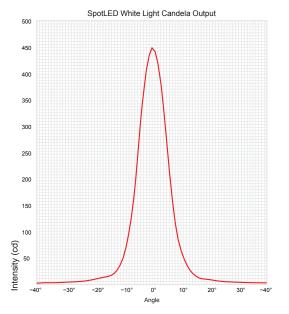


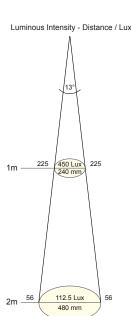




- Completely sealed housing
- Pre-wired with triple core cable

SpotLED Candela and Lux performance. White light.







Packaging for aftermarket presentation

Lens Material UV resistant enhanced impact acrylic **Rim Material** UV resistant plastic. 316 stainless steel

6000K (White) **Colour Temperature**

Pre-wired with 200mm of triple core cable Cable

Operating Voltage Multivolt 9-31V DC

White Spot Light < 2.5W (<0.21A@12V / <0.03A@24V) **Power Consumption**

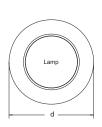
Ambient Light Ring < 0.5W (< 0.07A@12V / < 0.03A@24V)

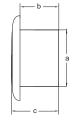
IP 6K 9K **Degree of Protection**

Mounting Stainless steel screws included

Weight 75g (including cable)

CE **Approvals**





Dimensions

a = 50.0 mm / 1.97"

a = 50.0 mm / 1.97 b = 34.0 mm / 1.34" c = 41.0 mm / 1.61" d = 75.0 mm / 2.95" with plastic rim 72.0 mm / 2.83" with stainless steel rim

Dual Colour SpotLED



White Light LED Spot Lamps - Blue Ambient Ring

Voltage	Rim Finish	Part Number
9-31V DC	Satin stainless steel rim	2JA 34 3 980 -162
9-31V DC	Polished stainless steel rim	2JA 34 3 980 -152
9-31V DC	Gold stainless steel rim	2JA 34 3 980 -142
9-31V DC	White plastic rim	2JA 34 3 980 -102
9-31V DC	Black plastic rim	2JA 34 3 980 -112





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Blue Ambient Ring

White Spot



White Light LED Spot Lamps - Red Ambient Ring

Voltage	Rim Finish	Part Number
9-31V DC	Satin stainless steel rim	2JA 34 3 980 -062
9-31V DC	Polished stainless steel rim	2JA 34 3 980 -052
9-31V DC	Gold stainless steel rim	2JA 34 3 980 -042
9-31V DC	White plastic rim	2JA 34 3 980 -002
9-31V DC	Black plastic rim	2JA 34 3 980 -012





Red Ambient Ring

White Spot



White Light LED Spot Lamps - White Ambient Ring

Voltage	Rim Finish	Part Number
9-31V DC	Satin stainless steel rim	2JA 34 3 980 -262
9-31V DC	Polished stainless steel rim	2JA 34 3 980 -252
9-31V DC	Gold stainless steel rim	2JA 34 3 980 -242
9-31V DC	White plastic rim	2JA 34 3 980 -202
9-31V DC	Black plastic rim	2JA 34 3 980 -212





White Ambient Ring

White Spot



Energy efficient LED downlights providing exceptional light output and screw or spring clip mounting options



Riviera 56FB www.riviera.com.au

Hella marine 95mm LED downlights harness state of the art LED technology to provide illumination comparable to 20W incandescent lamps for a fraction of the power consumption.

Completely sealed for interior and exterior installations, wet or dry, EuroLED 95mm lamps are the durable choice with class leading efficiency.

Power consumption is less than 4.0W (<0.33A@12V / <0.17A@24V) offering significant reductions in energy use and heat generation when compared to incandescent lighting.

Advanced Hella marine optic engineering provides a wide spread of uniform illumination without glare or eye strain. Precise LED selection ensures class leading colour rendering with interior enhancing colour temperatures in white (5000K) or warm white (3000K).

EuroLED 95mm lamps require no remote drivers or control wires, simply connect the positive and negative cables to 12V or 24V DC systems. Each lamp operates on an input voltage between 10-33V DC and can also be PWM dimmed and controlled via the Hella marine Dimmer (5XA 998 572-001).

EuroLED downlights offer class leading 'fit and forget' Hella marine technology with impressive illumination.



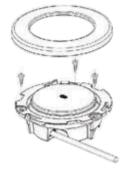












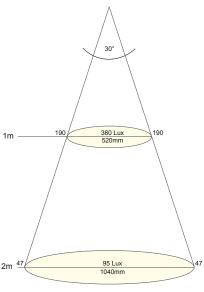


- Completely sealed housing
- Pre-wired with marine cable
- Screw or spring clip mounting

LED Downlight Candela and Lux performance. Warm White light.

EuroLED 95mm Warm White Light Candela Output 500 450 400 350 250 200 150 100 Intensity (cd)

Luminous Intensity - Distance / Lux



UV resistant enhanced impact acrylic Lens material UV resistant plastic. 316 stainless steel. Rim material

Colour Temperature 5000K (White) 3000K (Warm White)

PWM. e.g. Via Hella marine 5XA 998 572-001 **Dimming** Pre-wired with 500mm twin core marine cable. Cable

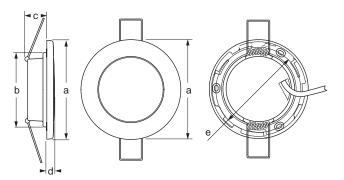
Operating Voltage 10-33V DC

< 4.0W (<0.33A@12V / <0.17A@24V) **Power Consumption**

Degree of Protection Completely sealed

Weight 145g (Screw mount version, including cable) Installation Recess mount. Screw or Spring Clip options.

Approvals CE, C-Tick



Dimensions

 $a = 95.0 \, \text{mm} / 3.75'' \, \text{with plastic rim}$ 97.0 mm / 3.82" with stainless steel rim

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b = 72.0 mm / 2.84'

c = 25.0mm / 0.98" with screw mounting 28.0 mm / 1.10" with spring clips

d = 9.0mm / 0.35"

e = 82.0mm / 3.23" PCD



Screw Mount



LED White Light LED Downlights

Voltage Rim Finish Part Number 10-33V DC White plastic rim 2JA 98**0 940**-001 10-33V DC Polished stainless steel rim 2JA 98**0 940**-011



Warm White Light LED Downlights

Rim Finish Part Number Voltage 10-33V DC White plastic rim 2JA 98**0 940**-101 10-33V DC Polished stainless steel rim 2JA 98**0 940**-111



Spring Clip Mount



White Light LED Downlights

Rim Finish Part Number Voltage 10-33V DC White plastic rim 2JA 98**0 940**-201 10-33V DC Polished stainless steel rim 2JA 98**0 940**-211





Warm White Light LED Downlights

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 98 0 940 -301
10-33V DC	Polished stainless steel rim	2JA 98 0 940 -311



EuroLED







Energy efficient LED downlights include spacer ring and switch options for versatility



Belize 52 www.belizemotoryachts.com.au

Completely sealed 115mm downlights feature a wide spread of illumination with class leading colour rendering and interior enhancing colour temperatures in white or warm white.

Power consumption is less than 4.0W (<0.33A@12V / <0.17A@24V) offering illumination comparable to 20W halogen lighting with substantial power saving and heat reduction.

Sophisticated lens and optic designs provide intense white light without glare or eye strain. Peak beam angle is a wide $36\ensuremath{^\circ}$ and the light pattern is very uniform.

EuroLED 115mm lamps require no remote drivers or control wires, simply connect the positive and negative cables to 12V or 24V DC systems. Each lamp operates on an input voltage between 10-33V DC and can also be PWM dimmed and controlled via the Hella marine Dimmer (5XA 998 572-001).

Pre-wired with quality twin core marine tinned cable, each lamp is completely sealed and features a shallow 22mm mounting depth. EuroLED lamps can be installed almost anywhere on board, interior or exterior, wet or dry. The low heat signature will not cause damage to surrounding materials.

EuroLED downlights offer class leading 'fit and forget' Hella marine technology with impressive illumination.











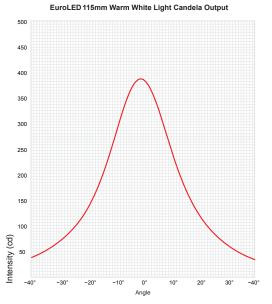


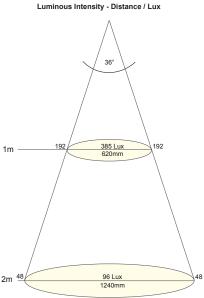




- Completely sealed housing
- Pre-wired with marine cable

LED Downlight Candela and Lux performance. Warm White light.





UV resistant enhanced impact acrylic Lens material Rim material UV resistant plastic. 316 stainless steel. **Colour Temperature** 5000K (White) 3000K (Warm White)

PWM. eg Via Hella marine 5XA 998 572-001 Dimming Pre-wired with 500mm twin core marine cable. Cable

Operating Voltage 10-33V DC

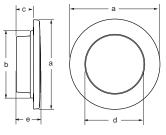
< 4.0W (<0.33A@12V / <0.17A@24V) **Power Consumption**

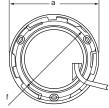
Degree of Protection Completely sealed Weight 170g (including cable)

Installation Recess or Surface Mount via spacer.

Approvals CE, C-Tick

Lamp

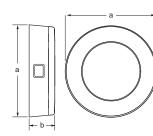


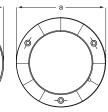


Dimensions

a = 115.0 mm 4.53" with plastic rim / 4.59" with stainless steel rim / 3.54" 116.5 mm $b = 90.0 \, mm$ 0.87" 3.03" 1.24" c = 22.0 mm d = 77.0mm = 31.5mm / 3.94" PCD = 100.0mm

Lamp with Spacer and Switch





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Dimensions

a = 120.0mm / 4.72" b = 31.5mm / 1.24"



Screw Mount



A white surface mount spacer ring is included with each lamp.



White Light LED Downlights

Voltage Rim Finish Part Number 2JA 98**0 820**-001 10-33V DC White plastic rim 10-33V DC Polished stainless steel rim 2JA 98**0 820**-011









LED Warm White Light LED Downlights

Rim Finish Part Number Voltage 10-33V DC White plastic rim 2JA 980 820-101 10-33V DC Polished stainless steel rim 2JA 980 820-111

Surface Mount with Switch



A white surface mount spacer with switch is included.



White Light LED Downlights

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 98 0 828 -001
10-33V DC	Polished stainless steel rim	2JA 98 0 828 -011







Warm White Light LED Downlights

Voltage	Rim Finish	Part Number
10-33V DC	White plastic rim	2JA 98 0 828 -101
10-33V DC	Polished stainless steel rim	2JA 98 0 828 -111









Southstar 37 www.salthouseboats.com

Hella marine touch technology makes lighting control beautifully simple.

Touch the red pad for red light, the white pad for white light. Hold a finger on the pad for two seconds and the lamp will cycle through increasing / decreasing intensity levels until the maximum / minimum intensity is achieved. Release at the intensity level required.

Dual colour EuroLED lamps may also be remotely operated from multiple points via momentary switches. Holding an external switch for two seconds will synchronise the lamps to the same colour and/or intensity level.

Light levels are stored by the lamps circuitry, even when a vessel's batteries are turned off. The lamp will turn on at the colour intensity previously set, regardless of power interruption.

Glare diffusion without light loss is key with any LED lamp to maintain efficiency and safety. Significant eye strain can result from periods of looking directly into a powerful LED point source. Hella marine lens technology provides a safe and uniform light pattern, without glare or discomfort.

Each EuroLED is completely sealed, highly impact and shock resistant for an ultra long service life. Multivolt electronics provide consistent illumination and protection across a range of voltages from 9-33 DC, even under severe voltage fluctuations, low battery voltages and long cable runs.

EuroLED Touch technology provides durable, energy saving illumination for a wide range of commercial and recreational applications.











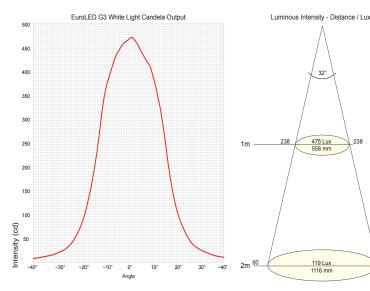


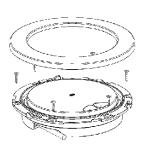


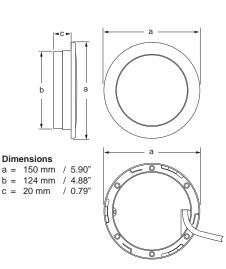


- Completely sealed housing
- Pre-wired with marine cable

EuroLED Touch 150mm Candela and Lux performance. White light.







Lens Material UV resistant enhanced impact acrylic Rim Material UV resistant plastic. 316 stainless steel Colour Temperature

4200K (White) 3000K (Warm White)

Multivolt 9-33V DC **Operating Voltage**

Power Consumption 4.0W (0.33A@12V / 0.17A@24V)

Degree of Protection Completely Sealed Weight 245g (including cable)

Installation Recess mount CE, C-Tick **Approvals**

Dual colour EuroLED Touch 150 lamps with dimming and remote momentary switch control. Touch the pad for ON/OFF or hold finger on the pad to cycle through dimming levels.

Pre-wired with 500mm of twin core or triple core marine cable



White / Red Light EuroLED Touch 150 Lamps

Voltage Rim Finish Part Number 9-33V DC White plastic rim 2JA 980 630-001 9-33V DC Polished stainless steel rim 2JA 98**0 630**-011

A white surface mount spacer



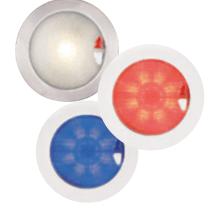
Warm White / Red Light EuroLED Touch 150 Lamps

Rim Finish Voltage Part Number 9-33V DC White plastic rim 2JA 980 630-101 Polished stainless steel rim 2JA 980 630-111 9-33V DC



White / Blue Light EuroLED Touch 150 Lamps

Rim Finish Voltage Part Number 9-33V DC White plastic rim 2JA 980 630-201 9-33V DC Polished stainless steel rim 2JA 980 630-211



 $(\in \mathbf{C}$

A white surface mount spacer ring is included with each lamp.



Touch the white pad for ON, touch the black pad for OFF.

White Light EuroLED Touch 150 Lamps

Voltage Rim Finish Part Number 9-33V DC White plastic rim 2JA 980 630-501 9-33V DC Polished stainless steel rim 2JA 98**0 630**-511



Warm White Light EuroLED Touch 150 Lamps

Voltage Rim Finish Part Number 9-33V DC White plastic rim 2JA 980 630-601 9-33V DC Polished stainless steel rim 2JA 980 630-611



Single colour EuroLED 150 lamps.

White Light EuroLED 150 Lamps

Part Number Voltage A white surface mount spacer 9-33V DC White plastic rim 2JA 980 631-501 ring is included with each lamp 9-33V DC Polished stainless steel rim 2JA 980 631-511



Warm White Light EuroLED 150 Lamps

Voltage Rim Finish Part Number 9-33V DC White plastic rim 2JA 980 631-601 9-33V DC Polished stainless steel rim 2JA 98**0 631**-611

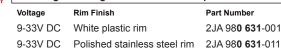


Single colour EuroLED 150 lamps with 0-10V dimming.



Dimming White Light EuroLED 150 Lamps

A white surface mount spacer ring is included with each lamp.





Warm White Light EuroLED 150 Lamps

Rim Finish Voltage Part Number 9-33V DC White plastic rim 2JA 980 631-101 9-33V DC Polished stainless steel rim 2JA 980 631-111







Rayglass Protector 11m www.rayglass.co.nz

EuroLED Touch lamps provide red / white, blue / white or white only light control via completely sealed touch sensitive technology.

Touch the colour pad for red or blue light, the white pad for white light. On the dual colour versions, hold a finger on the pad for more than two seconds and the lamp will cycle through four dimming levels. Release at the intensity required.

Dual colour EuroLED Touch lamps may also be remotely operated by momentary switches. Holding one of the external switches for two seconds will synchronise the lamps to the same colour and/or intensity level.

Light levels are stored 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 current draw is 4W on white and less than 1.5W on red or blue to provide significant power savings.

Advanced Hella marine optic technology provides a safe and uniform light pattern, without glare or

Each lamp is completely sealed, highly impact and shock resistant, for an ultra long service life. Multivolt circuitry provides consistent illumination across a range of voltages from 9-33 DC, even under severe voltage fluctuations.

EuroLED provide durable, energy saving lighting for a wide range of commercial and recreational applications.







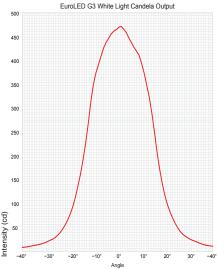


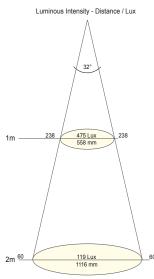






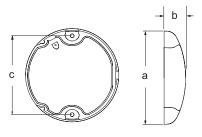






- Completely sealed housing - Pre-wired with marine cable
- Mounting bushs eliminate torque loads
- Nylon shroud clips onto lamp body





Dimensions

a = 129.5mm / 5.10" b = 29.5mm / 1.16" c = 110mm / 4.33" Lens Material UV resistant enhanced impact acrylic

Shroud Material Heavy duty nylon
Colour Temperature 5000K (White)

Cable Pre-wired with 2.5m of twin core marine cable

Operating Voltage Multivolt 9-33V DC

 $\begin{array}{ll} \textbf{Power Consumption} & 4.0 \text{W (} 0.33 \text{A}@12 \text{V / } 0.17 \text{A}@24 \text{V)} \\ \textbf{Operating Temperature} & -40 ^{\circ}\text{C to } +60 ^{\circ}\text{C / } -40 ^{\circ}\text{F to } 140 ^{\circ}\text{F} \\ \textbf{Degree of Protection} & \text{IP 6K6 6K7 - Completely Sealed} \\ \end{array}$

Weight 290g (including cable)

Installation Surface mount with robust bush mount

Approvals CE, C-Tick

ISO 8846 (Ignition Protection)



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EuroLED Spacer Rings

Black spacer 8HG 95**9 952**-002 White spacer 8HG 95**9 952**-012



Packaging for aftermarket presentation

Dual colour EuroLED Touch 130 lamps with dimming and remote momentary switch control. Touch the pad for ON/OFF or hold finger to cycle through dimming levels.



White / Red Light EuroLED 130 Touch Lamps

 Voltage
 Shroud Colour
 Part Number

 9-33V DC
 White Shroud
 2JA 959 950-121

 9-33V DC
 Black Shroud
 2JA 959 950-111







White / Blue Light EuroLED 130 Touch Lamps

 Voltage
 Shroud Colour
 Part Number

 9-33V DC
 White Shroud
 2JA 959 951-121

 9-33V DC
 Black Shroud
 2JA 959 951-111





Single White EuroLED Touch 130 lamps without dimming or momentary switch control. Touch the white pad for ON, touch the black pad for OFF.



Single White Light EuroLED 130 Touch Lamps

 Voltage
 Shroud Colour
 Part Number

 9-33V DC
 White Shroud
 2JA 959 950-521

 9-33V DC
 Black Shroud
 2JA 959 950-511





Single White or Warm White EuroLED 130 lamps.



White Light EuroLED 130 Lamps

 Voltage
 Shroud Colour
 Part Number

 9-33V DC
 White Shroud
 2JA 959 820-521

 9-33V DC
 Black Shroud
 2JA 959 820-511



Warm White Light EuroLED 130 Lamps

 Voltage
 Shroud Colour
 Part Number

 9-33V DC
 White Shroud
 2JA 959 820-321

 9-33V DC
 Black Shroud
 2JA 959 820-301













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

Multivolt electronics ensure constant light output in 12V or 24V DC systems. Easy Fit series lamps are completely sealed, shock and vibration resistant and represent reliable 'fit and forget' technology.

Each lamp is pre-wired with 120mm of marine tinned cable and supplied with stainless steel screws.



















Mounting with screws. Push on plastic cap versions.



Mounting with screws. Stainless steel cap versions



- Completely sealed housing
- Pre-wired with marine cable



Packaging for aftermarket presentation



Mounting without screws. Push on plastic cap versions only.

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

Lens Material UV resistant enhanced impact acrylic

Cap Material Black, white, chrome plated plastic, polished 316 stainless steel

Cable Pre-wired with 120mm of twin core marine cable

Operating Voltage Multivolt 12 / 24V DC

Power Consumption 0.5W (<0.04A@12V / <0.02A@24V)

Degree of Protection Completely Sealed

Weight Stainless Cap - 30g (including cable)

Plastic Cap - 15g (including cable)

Approvals CE, C-Tick





Dimensions

a = 45mmb = 31.5 mm / 1.24"

= 25.4mm / 1.00"

d = 14mm / 0.55" = 22.7mm / 0.89"

Ш	Е	D
Mii	Itiv	olt

White Light Easy Fit LED Step Lamps

Voltage	Cap Finish	Part Number
12 / 24V DC	Chrome plated plastic cap	2JA 99 8 560 -001
12 / 24V DC	White plastic cap	2JA 99 8 560 -011
12 / 24V DC	Gold plated cap	2JA 99 8 560 -081
12 / 24V DC	Black plastic cap	2JA 99 8 560 -111
12 / 24V DC	Satin chrome plated plastic cap	2JA 99 8 560 -121
12 / 24V DC	Polished stainless steel cap	2JA 99 8 560 -161



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Warm White Light Easy Fit LED Step Lamps

Voltage	Cap Finish	Part Number
12 / 24V DC	Chrome plated plastic cap	2JA 99 8 560 -401
12 / 24V DC	White plastic cap	2JA 99 8 560 -411
12 / 24V DC	Gold plated cap	2JA 99 8 560 -431
12 / 24V DC	Black plastic cap	2JA 99 8 560 -421
12 / 24V DC	Satin chrome plated plastic cap	2JA 99 8 560 -441
12 / 24V DC	Polished stainless steel cap	2JA 99 8 560 -451





Blue Light Easy Fit LED Step Lamps

Vo	oltage	Cap Finish	Part Number
12	2 / 24V DC	Chrome plated plastic cap	2JA 99 8 560 -041
12	2 / 24V DC	White plastic cap	2JA 99 8 560 -051
12	2 / 24V DC	Gold plastic cap	2JA 99 8 560 -091
12	2 / 24V DC	Black plastic cap	2JA 99 8 560 -151
12	2 / 24V DC	Satin chrome plated plastic cap	2JA 99 8 560 -101
12	2 / 24V DC	Polished stainless steel cap	2JA 99 8 560 -171





Amber Light Easy Fit LED Step Lamps

Voltage	Cap Finish	Part Number
12 / 24V DC	Chrome plated plastic cap	2JA 99 8 560 -301
12 / 24V DC	White plastic cap	2JA 99 8 560 -311
12 / 24V DC	Gold plated cap	2JA 99 8 560 -331
12 / 24V DC	Black plastic cap	2JA 99 8 560 -321
12 / 24V DC	Satin chrome plated plastic cap	2JA 99 8 560 -341
12 / 24V DC	Polished stainless steel cap	2JA 99 8 560 -351





Red Light Easy Fit LED Step Lamps

Voltage	Cap Finish	Part Number
12 / 24V DC	Chrome plated plastic cap	2JA 99 8 560 -201
12 / 24V DC	White plastic cap	2JA 99 8 560 -211
12 / 24V DC	Gold plated cap	2JA 99 8 560 -231
12 / 24V DC	Black plastic cap	2JA 99 8 560 -221
12 / 24V DC	Satin chrome plated plastic cap	2JA 99 8 560 -241
12 / 24V DC	Polished stainless steel cap	2JA 99 8 560 -251





Accessories to suit 8560 series

9AR 99**4 554**-211 Polished 316 Stainless Steel Cap and Mounting Screw Kit.





Hella marine Slim Line LED courtesy lamps can be installed almost anywhere on board.

Advanced lens technology provides an even spread of soft light without glare or eye strain. Each lamp is completely sealed, highly shock, impact and vibration resistant, perfectly suited for the demanding marine environment.

Hella marine LED courtesy lamps 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.











- Completely sealed housing
- Pre-wired with marine cable



Packaging for aftermarket presentation

Lens MaterialUV resistant enhanced impact acrylicRim MaterialUV resistant plastic. 316 stainless steel

DimmingDimmed via Hella marine Dimmer 5XA 998 572-001CablePre-wired with 120mm of single core marine cable

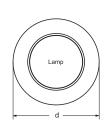
Operating Voltage 12V DC or 24V DC

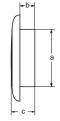
Power Consumption < 0.5W (< 0.042A@12V / < 0.02A@24V)

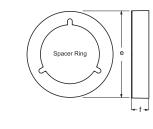
Degree of Protection IP 67 - Completely Sealed

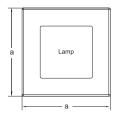
Mounting Stainless steel screws included

Weight 50g (including cable)

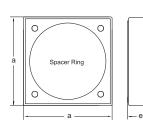












Dimensions

a = 50.0 mm / 1.97" b = 13.0 mm / 0.51"

c = 21.0 mm / 0.83"

d = 75.0 mm $\,/\,$ 2.95" with plastic rim 72.0 mm $\,/\,$ 2.83" with stainless steel rim

e = 75.0 mm / 2.95" f = 15.0 mm / 0.59"

Dimensions

a = 60.0 mm / 2.36" b = 16.0 mm / 0.63"c = 50.0 mm / 1.97"

d = 22.0 mm / 0.87"

e = 17.0 mm / 0.67"

Round Slim Line Lamps

White Light Round LED Lamps*

Rim Finish	12V Part Number	24V Part Number
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 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 Round LED Lamps*

Rim Finish	12V Part Number	24V Part Number
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 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

Square Slim Line Lamps

Warm White Light Square LED Lamps*

Rim Finish	12V Part Number	24V Part Number
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 Square LED Lamps*

Rim Finish	12V Part Number	24V Part Number
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

^{*}Lamps include a surface mounting spacer ring and stainless steel screws.

Green Light Round LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 98 0 502 -091	2XT 98 0 503 -091
Polished stainless steel rim	2XT 98 0 502 -021	2XT 98 0 503 -021
Gold stainless steel rim	2XT 98 0 502 -031	2XT 98 0 503 -031
White plastic rim	2XT 98 0 502 -041	2XT 98 0 503 -041
Black plastic rim	2XT 98 0 502 -051	2XT 98 0 503 -051

Green Light Square LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
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

Blue Light Round LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 98 0 502 -291	2XT 98 0 503 -291
Polished stainless steel rim	2XT 98 0 502 -221	2XT 98 0 503 -221
Gold stainless steel rim	2XT 98 0 502 -231	2XT 98 0 503 -231
White plastic rim	2XT 98 0 502 -241	2XT 98 0 503 -241
Black plastic rim	2XT 98 0 502 -251	2XT 98 0 503 -251

Blue Light Square LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
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

Amber Light Round LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 98 0 507 -091	2XT 98 0 508 -091
Polished stainless steel rim	2XT 98 0 507 -021	2XT 98 0 508 -021
Gold stainless steel rim	2XT 98 0 507 -031	2XT 98 0 508 -031
White plastic rim	2XT 98 0 507 -041	2XT 98 0 508 -041
Black plastic rim	2XT 98 0 507 -051	2XT 980 508-051

Amber Light Square LED Courtesy Lamps

		400
Rim Finish	12V Part Number	24V Part Number
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

Red Light Round LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
Satin stainless steel rim	2XT 98 0 507 -301	2XT 98 0 508 -291
Polished stainless steel rim	2XT 98 0 507 -221	2XT 98 0 508 -221
Gold stainless steel rim	2XT 98 0 507 -231	2XT 98 0 508 -231
White plastic rim	2XT 98 0 507 -241	2XT 98 0 508 -241
Black plastic rim	2XT 98 0 507 -251	2XT 98 0 508 -251

Red Light Square LED Courtesy Lamps

Rim Finish	12V Part Number	24V Part Number
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

Surface Mounting Accessories

Black Spacer 8HG 95**9 993**-102 White Spacer 8HG 95**9 993**-112



Surface Mounting Accessories

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







Hella marine oblong LED lamps are offered as either dedicated step lamps or general courtesy illumination with equal vertical spread.

9680 series lamps feature engineered optics to direct light downwards at 30 degrees safely illuminating deck and step tread surfaces without shining into the eyes.

Completely sealed and ultra durable, Hella marine LED lamps may be installed on a vessel's interior or interior, wet or dry.

Engineered optics ensure an even spread of light without harsh point sources.

Attractive trim accessories are offered in polished. satin or gold plated 316 stainless steel.















- Completely sealed housing
- Pre-wired with marine cable

Lens Material

UV and impact resistant plastic

Cable

Pre-wired with 120mm of marine cable

Operating Voltage

12V or 24V DC systems

Power Consumption

0.5W (<0.04A@12V / <0.02A@24V)

Degree of Protection

IP 67 - Completely Sealed Stainless steel screws included

Mounting Weight

20g (add 15g for bezel version)

Approvals

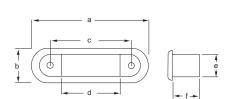
CE, C-Tick







Packaging for aftermarket presentation



Dimensions

a = 84.0 mm / 3.31"

b = 29.0 mm / 1.14"

c = 58.7 mm / 2.31"

d = 44.0 mm / 1.73" e = 16.0 mm / 0.63"



Peak light is directed down at 30 degrees.

Wide Rim LED Step Lamps





White Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	10-33V DC	2XT 95 9 680 -811
Gold stainless steel rim	10-33V DC	2XT 95 9 680 -841
Satin stainless steel rim	10-33V DC	2XT 95 9 680 -851





Warm White Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	10-33V DC	2XT 95 9 680 -411
Gold stainless steel rim	10-33V DC	2XT 95 9 680 -421
Satin stainless steel rim	10-33V DC	2XT 95 9 680 -431





Multivolt Green Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	10-33V DC	2XT 95 9 680 -911
Gold stainless steel rim	10-33V DC	2XT 95 9 680 -921
Satin stainless steel rim	10-33V DC	2XT 95 9 680 -931







Blue Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	10-33V DC	2XT 95 9 680 -61
Gold stainless steel rim	10-33V DC	2XT 95 9 680 -64
Satin stainless steel rim	10-33V DC	2XT 95 9 680 -65





Red Light LED Step Lamps

Rim Finish	Voltage	Part Number
Polished stainless steel rim	8-28V DC	2XT 95 9 680 -711
Gold stainless steel rim	8-28V DC	2XT 95 9 680 -721
Satin stainless steel rim	8-28V DC	2XT 95 9 680 -731





Wide Rim LED Courtesy Lamps





White Light LED Courtesy Lamps

Lens Colour	Voltage	Part Number
clear	10-33V DC	2XT 95 9 510 -851





Warm White Light LED Step Lamps

Lens Colour Voltage Part Number clear 10-33V DC 2XT 95**9 510**-901





CLEAR LENS

Green Light LED Courtesy Lamps

Lens Colour Voltage Part Number clear 10-33V DC 2XT 959 510-621





Polished 316 Stainless Steel Rim 9AR 99**8 019**-001

Gold Plated 316 Stainless Steel Rim 9AR 99**8 019**-011

Satin 316 Stainless Steel Rim 9AR 95**9 685**-061









Blue Light LED Courtesy Lamps

Lens Colour	Voltage	Part Number
Clear	10-33V DC	2XT 95 9 510 -651

Amber Light LED Courtesy Lamps

Lens Colour	Voltage	Part Number
Amber	12V DC	2XT 95 9 510 -511
Amber	24V DC	2XT 95 9 510 -561
Clear	12V DC	2XT 95 9 510 -501
Clear	24V DC	2XT 95 9 510 -551

Red Light LED Courtesy Lamps

Lens Colour	Voltage	Part Number
Red	12V DC	2XT 95 9 510 -711
Red	24V DC	2XT 95 9 510 -761
Clear	12V DC	2XT 95 9 510 -701
Clear	24V DC	2XT 95 9 510 -751





1720 Matt Watson Signature www.stabicraft.com 12V Courtesy intensity white under gunnels

Featuring a completely sealed 10mm profile and class leading efficiency for a wide range of illumination tasks,

The range offers two intensity levels. *Interior Intensity* lamps (<3W) provide a wide spread of powerful illumination in white (5000K) or warm white (3000K) and are recommended as a viable alternative to 7W fluorescent or 10W incandescent based lamps.

The *Courtesy Intensity* range (<1.5W) provides soft and uniform courtesy light pattern in white, warm white, blue or red. The low profile design offers an effortless, surface mount installation almost anywhere onboard.

Purpose designed for the harsh marine environment, surface mount strip lamps are salt water durable and thoroughly tested to withstand high levels of vibration, impact, and shock loads.

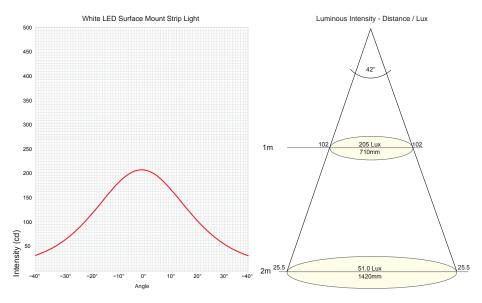
Engineered optics harness and distribute available light without glare, harsh point sources or eye strain. The result is highly effective illumination with minimal energy use.

Quality twin core marine cable is sealed into each lamp for absolute water tightness, reliable electrical connections and ongoing reliability.



- Completely sealed housing
- Pre-wired with marine cable

Surface Strip Interior Intensity Candela and Lux performance. White light.





Packaging for aftermarket presentation

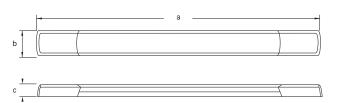
Lens MaterialUV resistant enhanced impact acrylicColour Temperature5000K (White) 3000K (Warm White)DimmingHella marine Dimmer 5XA 998 572-001CablePre-wired with 500mm of twin core cable

Operating Voltage 12V DC or 24V DC

Power Consumption Interior Intensity < 3.0W (<0.25A@12V / <0.16A@24V)

Courtesy Intensity < 1.5W (<0.125A@12V / <0.06A@24V)

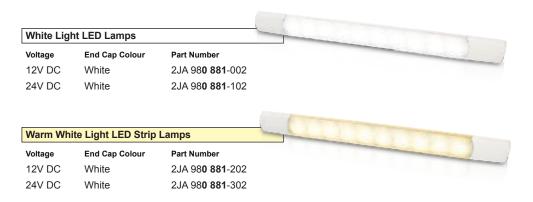
Degree of ProtectionCompletely SealedInstallationSurface MountWeight75g (including cable)



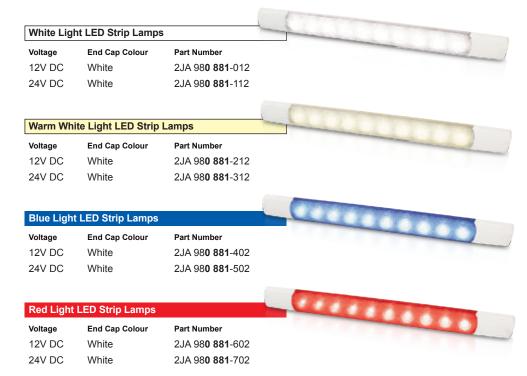
Dimensions

a = 285 mm / 11.22" b = 25.0 mm / 1.0" c = 10.0 mm / 0.39"

<3W Interior Intensity Surface Mount Lamps</p>



<1.5W Courtesy Intensity Surface Mount Lamps





Accessories to suit 0881 series

8HG 95**8 000**-011 45° Mounting Bracket. White.

DuraLed



Ultra wide, even illumination from energy efficient and robust LED lamps



Riviera 43FB www.riviera.com.au

Completely sealed, compact LED lamps featuring highly efficient LED technology and an ultra wide spread of light.

Power consumption is low at less than 2.5W (less than 0.20A@12V) yet light performance is comparable to an 8W fluorescent tube lamp.

DuraLed 12 LED lamps feature precision machined optics to purposely disperse light in a very wide spread pattern.

The result is LED technology ideal for engine room illumination, under decks, and to throw light into confined spaces and cavities on a wide range of

A robust bush mount system secures the surface mount lamp and takes up the torque loads of fastenings.

DuraLed lamps are thoroughly proven for harsh environments and represent outstanding class leading energy efficiency and maintenance free 'fit and forget' technology.













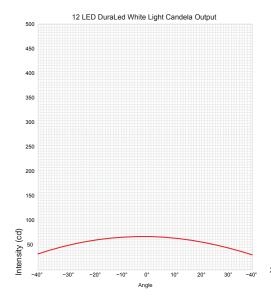


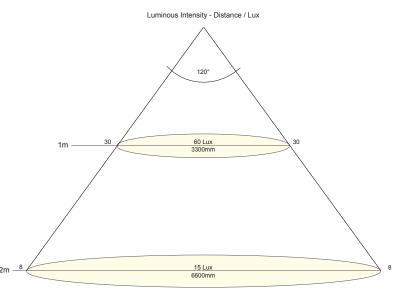




- Completely sealed housing
- Pre-wired with marine cable
- Mounting bushs eliminate torque loads
- Nylon shroud clips onto lamp body

DuraLed 12 LED Candela and Lux performance. White light.





Lens Material UV resistant, enhanced impact acrylic

Shroud Material Heavy duty nylon

5000K (White) / 3000K (Warm White) **Colour Temperature**

Pre-wired with 500mm of twin core marine cable Cable

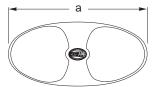
Operating Voltage

< 2.5W (<0.20A@12V / <0.10A@24V) **Power Consumption** -40°C to +60°C / -40°F to 140°F **Operating Temperature** IP 67 - Completely Sealed **Degree of Protection** Weight 115g (including cable)

Installation Surface mount with robust bush mount CE, C-Tick, ISO 8846 (Ignition Protection) **Approvals**



Packaging for aftermarket presentation





Dimensions

a = 140 mm / 5.51" b = 65.0 mm / 2.56" c = 32.0 mm / 1.26"

DuraLed®



White Light DuraLed 12 LED Lamps

Shroud Colour Part Number Voltage 12 / 24V DC White Shroud 2JA 95**9 700**-101 12 / 24V DC Black Shroud 2JA 95**9 700**-121



LED

Warm White Light DuraLed 12 LED Lamps

Shroud Colour Part Number Voltage 12 / 24V DC White Shroud 2JA 95**9 700**-701 12 / 24V DC Black Shroud 2JA 959 700-711



 $(\in \mathbf{C}$

Lamps with Heavy Duty Switch



White Light DuraLed 12 LED Lamps with Switch

Voltage **Shroud Colour** Part Number 12 / 24V DC White Shroud with switch 2JA 98**0 704**-001 12 / 24V DC Black Shroud with switch 2JA 98**0 704**-021





Warm White Light DuraLed 12 LED Lamps with Switch

Voltage	Shroud Colour	Part Number
12 / 24V DC	White Shroud with switch	2JA 98 0 704 -501
12 / 24V DC	Black Shroud with switch	2JA 98 0 704 -521







Powerful white light for heavy duty applications and a safe, energy efficient and reliable alternative to incandescent and fluorescent lighting.

Designed for engine rooms, storage lockers, lazarettes and many heavy duty applications where reliability must not be compromised. Advanced Hella marine lens and optic engineering ensures a wide spread of light without glare or harsh point sources.

Product reliability is second to none, proven worldwide in thousands of highly demanding applications. Each lamp is a completely sealed design, highly impact resistant and shock resistant, ensuring an ultra long service life.

DuraLed lamps are surface mounted and feature a unique installation system where the fastening load is taken up by a heavy duty nylon bush to eliminate possible stress on the lamp housing.

Hella marine Multivolt circuitry provides constant illumination and circuit protection from 9-33V DC, even under severe voltage fluctuations. Spike protection, reverse polarity protection and over voltage protection are all built-in benefits of the sophisticated electronics inside each lamp.

















- Completely sealed housing and cable entry
- Pre-wired with marine cable



Completely sealed unit with robust bush mounts.



20 and 36 LED DuraLed packaging option for aftermarket presentation

Colour Temperature 5000K (Cool White) Cable Pre-wired with 2.5m of twin core marine cable **Operating Voltage** 9-33V DC **Voltage Protection** Spike protected to +500 volts Reverse polarity protected to -700 volts **Power Consumption** 20 LED < 4W (<0.33A@12V / <0.17A@24V) 36 LED < 7W (<0.51A@12V / <0.28A@24V) 50 LED < 10W (<0.80A@12V / <0.39A@24V)

UV resistant, enhanced impact acrylic

Operating Temperature Degree of Protection Weight

Lens Material

IP 67 - Completely Sealed 20 and 36 LED 345g (including cable)

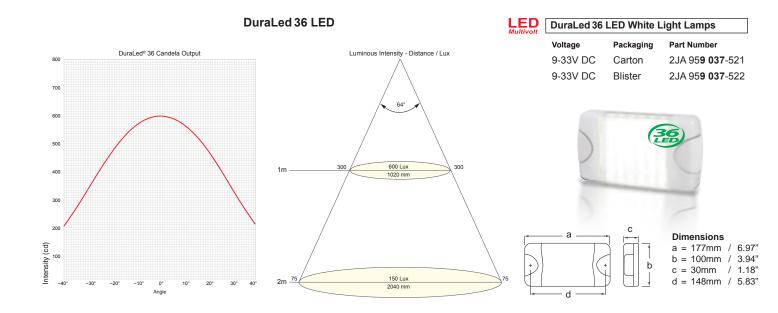
-40°C to +60°C / -40°F to 140°F

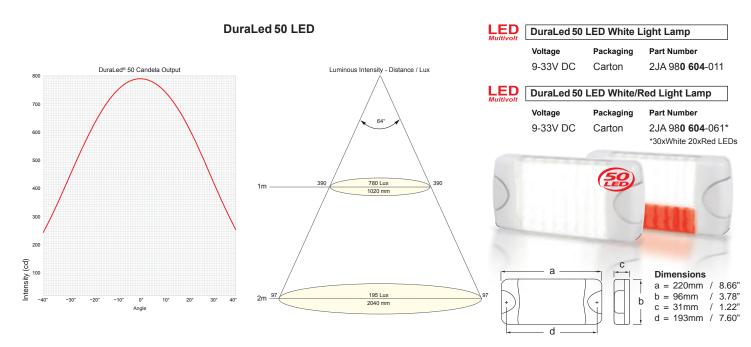
50 LED 450g (including cable)

Installation Surface mount with robust bush mount CE, C-Tick, ISO 8846 (Ignition Protection) **Approvals**



DuraLed 20 LED DuraLed 20 LED White Light Lamps Voltage Packaging DuraLed® 20 Candela Output Luminous Intensity - Distance / Lux 9-33V DC Carton 2JA 98**0 608**-001 9-33V DC Blister 2JA 98**0 608**-002 64° **Dimensions** a = 177mmntensity (cd) b = 100mm / c = 30mm1.18" d = 148mm / 5.83"









Completely sealed, power saving LED Livewell / Baitwell lamps are designed for installation into live bait tanks with wall thicknesses up to 26mm.

Supplied with a plastic nut and rubber gaskets for a watertight seal, installation is swift and secure into often inaccessible locations.









Housing Description

Installation

Power Consumption

Degree of Protection

Mounting

Pre-wired with 120mm of cable **Operating Voltage**

0.5W (< 0.04A@12V / < 0.02A@24V)

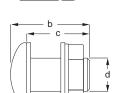
IP 67 - Completely sealed

Heavy duty polycarbonate

Single hole

Rubber gaskets included

Weight 75g (including cable)





Voltage Lens Color Part Number

12V Clear 2JA 99**8 543**-051

Dimensions a = 50.0 mm / 1.97"

b = 49.0 mm / 1.93"

c = 40.0 mm / 1.57"

d = 26.0 mm / 1.02"

Blue Light LED Livewell Lamp

Voltage Lens Color **Part Number** 12V Clear 2JA 99**8 543**-031

Amber Light LED Livewell Lamp

Voltage Lens Color Part Number 12V Amber 2JA 99**8 543**-001

Red Light LED Livewell Lamp

Part Number Voltage Lens Color 12V 2JA 99**8 543**-021 Red



Packaging for aftermarket presentation

Spare Parts





Round Lamp Rims

Description	Part Number
Black Plastic Rim Soft Edge	9AB 95 9 505 -202
White Plastic Rim Soft Edge	9AB 95 9 505 -312
Polished 316 S/S Rim Soft Edge	9AB 95 9 505 -502
Gold Plated 316 S/S Rim Soft Edge	9AB 95 9 505 -522
Satin Chrome Plated 316 S/S Rim Soft Edge	9AB 95 9 505 -562
White Plastic Rim Square Edge	9AB 95 9 505 -912
Polished 316 S/S Rim Square Edge	9AB 95 9 505 -402

Round Courtesy Surface Mount Spacer Rings

Description	Part Number
Black Plastic Spacer	8HG 95 9 993 -102
White Plastic Spacer	8HG 95 9 993 -112



Square Lamp Rims

Description	Part Number
Black Plastic Rim	9AB 95 9 585 -202
White Plastic Rim	9AB 95 9 585 -312
Chrome Plated Plastic Rim	9AB 95 9 585 -012
Gold Plated Plastic Rim	9AB 95 9 585 -022
Satin Chrome Plated Plastic Rim	9AB 95 9 585 -032

Square Courtesy Surface Mount Spacer Rings

Description	Part Number
Black Plastic Spacer	8HG 95 9 993 -602
White Plastic Spacer	8HG 95 9 993 -542
Chrome Plated Plastic Spacer	8HG 95 9 993 -512
Gold Plated Plastic Spacer	8HG 95 9 993 -522
Satin Chrome Plated Plastic Spacer	8HG 95 9 993 -532



Easy Fit Step Lamp Caps

Description	Part Number
Black Cap	9AB 99 4 554 -032
White Cap	9AB 99 4 554 -012
Chrome Plated Cap	9AB 99 4 554 -002
Gold Plated Cap	9AB 99 4 554 -022
Satin Chrome Plated Cap	9AB 99 4 554 -062
Polished 316 Stainless Steel Cap (with screws)	9AR 99 4 554 -211



Wide Rim Rectangular Courtesy Lamp Rims

Description	Part Number
Polished 316 Stainless Steel Rim	9AR 99 8 019 -001
Gold Plated 316 Stainless Steel Rim	9AR 99 8 019 -011
Satin Chrome Plated 316 Stainless Steel Rim	9AR 95 9 685 -061



EuroLED 115mm Spacer Ring Description

Description	Part Number
EuroLED 115 White Plastic Spacer	8HG 98 0 827 -002

EuroLED 130mm Accessories

Description	Part Number
Black Nylon Shroud	9HD 95 9 027 -002
White Nylon Shroud	9HD 95 9 027 -012
Screw Boss (Pack of 2)	9NH 95 9 028 -012



EuroLED 130mm Spacer Rings

Description	Part Number
EuroLED 130 Black Plastic Spacer	8HG 95 9 952 -002
EuroLED 130 White Plastic Spacer	8HG 95 9 952 -012

Fluorescent Lamps

((

Transistorised 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
- Reliable ignition even at extremely low temperatures
- Prevention of early blackening of the fluorescent tube
- Reverse polarity protection
- ON / OFF switch integrated into housing
- Interference suppressed to VDE 0879





Housing Description

Impact resistant plastic

Light Source

TL8 Fluorescent tube included

Installation

6.3mm flat-plug connectors

Fluorescent Tube Interior Lamps

Lig	nt o	ıtput	com	parison	

Voltage / Wattage Length 12V / 8W 440mm 24V / 8W 440mm

Part Number 2JA 00**7 372**-002 2JA 007 372-012

Compact 8W fluorescent tube produces light output equivalent to a 40W incandescent bulb.





7373 Series

Housing Description Impact resistant plastic

Light Source TL8 Fluorescent tube included Installation 6.3mm flat-plug connectors

Fluorescent	Tube	Interior	Lamps
Voltago / Wotto	~~	Longth	

Light output comparison

output equivalent

Voltage / Wattage	Length	Part Number	Compact 7W fluorescent tube
12V / 7W	255mm	2JA 00 7 373 -002	produces light output equivaler
24V / 7W	255mm	2JA 00 7 373 -012	to a 40W incandescent bulb.

Fluorescent Tube Interior Lamps

Light output comparison

Voltage / Wattage	Length	Part Number	Compact 11W fluorescent tube
12V / 11W	285mm	2JA 00 7 373 -032	produces light output equivalent
24V / 11W	285mm	2JA 00 7 373 -042	to a 75W incandescent bulb.

Fluorescent Tube Interior Lamps			Light output comparison
Voltage / Wattage	Length	Part Number	Compact 8W fluorescent tube
12V / 8W	355mm	2JA 00 7 373 -062	produces light output equivalent
24V / 8W	355mm	2JA 00 7 373 -072	to a 40W incandescent bulb.

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Chart Reading Lamps

Hella marine 🕮





4532 Series

Adjustable lamps for navigation areas. An ON/OFF switch is integrated into the lamp head. A red lens is included for optional 'non glaring' night illumination.

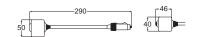
295mm Fixed mounting

Housing Description Plastic

Bulb 12V / 5W BA9s included Installation Pre-wired with 100mm of cable

Maximum Output 6W





290mm Cigarette lighter plug

4532 Series Halogen Interior Lamps

Voltage	Arm Length	Part Number
12V	296mm	2AB 00 4 532 -171
12V	600mm	2AB 00 4 532 -161
12V	290mm (Cigarette)	2AB 00 4 532 -022

Replacement Bulb Type

12V / 5W Bulb 8GH 002 473-151



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



4532 Series Incandescent Interior Lamps

Voltage	Housing Colour	Part Number
12V	Black Housing	2AB 00 4 532 -101
12V	White Housing	2AB 00 4 532 -111

Replacement Bulb Type

12V / 5W Bulb 8GH 00**2 473**-151



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) 2 flat plug connectors 6.3mm Installation

Maximum Output 10W

Replacement Bulb Type

12V / 10W Bulb 8GM 00**2 091**-131

24V / 10W Bulb 8GM 002 091-251

4192 Series Incandescent Interior Lamp

Voltage	Housing Colour	Lens Colour	Part Number
12V	White Housing	Clear	2JA 00 4 192 -071
12V	Black Housing	Clear	2JA 00 4 192 -001
12V	White Housing	Red	2JA 00 4 192 -081
12V	Black Housing	Red	2JA 00 4 192 -041

General Interior / Exterior Lamps



8508 Series

Water resistant flush mount halogen lamps suitable for interior or exterior installations.

The reflector uses a 10W bulb. Bulbs up to 20W can also be used. Supplied with a silicon seal to prevent the glass lens from vibrating. Spring clip mounting.

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



8508 Series Halogen Interior / Exterior Lamps

Voltage	Housing Colour	Part Number
12V	Chrome Housing	2JA 99 8 508 -001
12V	White Housing	2JA 99 8 508 -011

Replacement Bulb Type

12V / 10W Bulb 8GH 00**5 758**-131

24V / 10W Bulb 8GH 00**5 758**-251



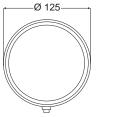
8513 Series

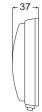
Water resistant marine lamps made from tough polycarbonate with a foam rubber gasket. Suitable for interior or exterior installations.

Mounting screws included. Integrated ON / OFF switch.

Housing DescriptionImpact resistant polycarbonateBulb12V / 10W SV8.5 includedInstallationPre-wired with 70mm of cable

Maximum Output 15W





8513 Series Halogen Interior / Exterior Lamps

Voltage	Housing Colour	Part Number
12V	Chrome Housing with Switch	2JA 99 8 513 -011
12V	White Housing with Switch	2JA 99 8 513 -001

Replacement Bulb Type

12V / 10W Bulb 8GM 00**2 091**-131

24V / 10W Bulb 8GM 00**2 091**-251



LED Trailer Lighting & Accessories



Submersible LED Trailer Lamps



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

Designed and manufactured in New Zealand, every product is a completely sealed, ultra durable, maintenance free and represent true 'fit and forget' LED technology.

Sophisticaled internal electonics reduce the effect of voltage drop, ensuring ongoing safety.

This means Hella LED lamps perform at full brightness across a range of voltages unaffected by voltage drop that can dull bulb lamps due to long cable runs, joins, terminals and plugs in a boat trailer's wiring.

0720 Series LED Combination Lamp



Lens MaterialHeavy duty Grilamid lensMountingHorizontal or vertical

Operating Voltage Suitable for 12 volt and 24 volt systems

Power Consumption Rear position 1W, Indicator 2W, Stop 2W

Voltage Protection Spike, Over Voltage and Reverse Polarity

Cable Pre-wired with 0.5m of cable

Approvals ECE





















Submersible Rear Combination Lamp

Description

1 x Rear Position / Stop / Indicator

Part Number

2VA 980 720-001



9010 & 9011 Series LED Lamps

Lens Material High impact acrylic

Mounting Single Bolt, optional Red Reflex Reflector Base

Operating Voltage Dualvolt 12-24V DC

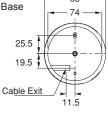
Power Consumption Rear position 1W, Indicator 3W, Stop 3W

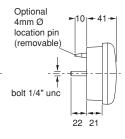
Fog 3W, Reverse 4W

Voltage Protection Spike, Over Voltage and Reverse Polarity

Cable Pre-wired with 2.5m of cable

Approvals ECE





















Submersible Rear Combination Lamp

Description

Part Number

Single Rear Position / Stop / Indicator Lamp 2SD 959 010-201



Submersible Single Function Lamps

 Description
 Part Number
 Description
 Part Number

 Fog
 2NE 959 011-501
 Reverse
 2ZR 959 010-501

Submersible LED Trailer Lamps





DuraLED Series Combination Lamps

Lens Material High impact acrylic

Mounting Designed to be mounted horizontally **Operating Voltage** Suitable for 12 volt and 24 volt systems **Power Consumption** Rear Position 1W, Indicator 5W, Stop 5W,

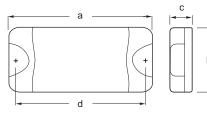
Reverse 3W (2SF 980 603-503 only)

Voltage Protection Spike, Over Voltage and Reverse Polarity

Pre-wired with 6m of cable Cable

Approvals

ECE



Dimensions

a = 220mm / 8.66" b = 96mm3.78"

c = 31mm / 1.22" d = 193mm / 7.60"















Submersible Rear Combination Lamp

Description

Rear Position / Stop / Indicator

Part Number

2SD 959 050-001





Submersible Trailer Lighting Kit

Kit Contains

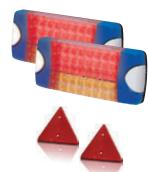
2 x 2SD 959 050-001 Combination Lamps

2 x 2KA 959 640-601 Number Plate Lamps

2 x 8RA 002 020-001 Triangular Reflectors

Part Number

2VB 959 050-801







Submersible Rear Combination Lamp with Reverse

Description Part Number 2SK 98**0 603**-503 Rear Position / Stop / Indicator / Reverse



Submersible LED Lamps

Surface Mount LED Marker Lamps

Operating Voltage

Approvals

Power Consumption

















DuraLED Front Position / End Outline Lamps

Quantity Cable Length Part Number 2 pcs 500mm 2PF 959 570-202 2 pcs 5m 2PF 95**9 570**-212

<1W

FCF

Multivolt 8-28V DC







DuraLED Rear Position / End Outline Lamps

Quantity Cable Length Part Number 2 pcs 500mm 2XA 959 560-401 5m 2XA 95**9 560**-411 2 pcs

Flush Mount LED Marker Lamps

Operating Voltage Multivolt 8-28V DC

<1W **Power Consumption** ECE **Approvals**

















Front Position / End Outline Lamps. Horizontal or vertical mounting

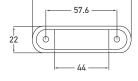
Quantity Cable Length Part Number 500mm 2PF 95**9 590**-202 2 pcs 2 pcs 2PF 95**9 590**-212





Rear Position / End Outline Lamps. Horizontal or vertical mounting

Cable Length Quantity Part Number 2XA 959 790-401 2 pcs 500mm 2 pcs 2XA 95**9 790**-411



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Side Marker Lamps. Horizontal mounting only

Quantity Cable Length Lens Colour Part Number 500 mm 2PS 959 788-002 2 pcs Orange 2 pcs 500 mm Transparent 2PS 959 788-102



LED Number Plate Lamp

Operating Voltage Multivolt 10-33V DC

Approvals

Note - Two units required for Europe.











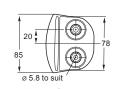


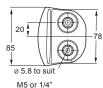




Number Plate Lamp

Part Number 2KA 95**9 640**-601

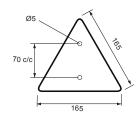






ECE Triangular Reflector

Part Number 8RA 002 020-001





Accessories



Oscillating Fans





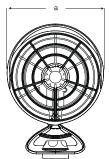


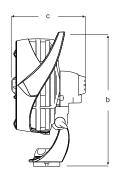
Two Speed "Turbo 2.0" Oscillating Fans

Highly regarded Hella marine Turbo fans are strengthened by the arrival of the Turbo 2.0 series.

Now featuring an oscillating function to deliver refreshingly cool air circulation on board, Turbo 2.0 fans continue with Hella's benchmark quiet operation, low power consumption and proven durable materials.

- Quality German motor for quiet operation
- Low power consumption <4W (<0.33A@12V)
- Hi / Lo fan speed control
- On / Off oscillation control
- Safety blade guard front and rear
- Side, upright or pendant mounting
- Pre-wired with 1.8m / 6ft of cable
- Side, upright or pendant mounting





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Dimensions

a = 181mm / 7.13" b = 252mm / 9.92" c = 139mm / 5.47"

 Material Description
 Impact resistant plastic

 Switch
 Integrated 2 stage rotar

Switch Integrated 2 stage rotary

Output Speed 1: 70 litre / sec.

Speed 2: 95 litre / sec.

Power Consumption <4W (<0.33A@12V)

Installation Pre-wired with 1.8m / 6ft of cable

Two Speed Oscillating Fan "Turbo 2.0"

Voltage	Housing Colour	Part Number
12V	Black Housing	8EV 00 3 366 -012
12V	White Housing	8EV 00 3 366 -022

Fans

Hella marine 🕮





Two Speed "Turbo" Fans

Internationally respected Hella Turbo fans may be turned and pivoted in all directions and locked into position.

 (ϵ)

- Quality German motor for 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

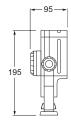
Output Speed 1: 70 litre / sec.

Speed 2: 95 litre / sec.

Power Consumption 6.5W

Installation Pre-wired with 1.4m / 4.6ft of cable





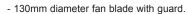
Two Speed Fan "Turbo

Voltage	Housing Colour	Part Number
12V	Black Housing	8EV 003 361-002
12V	White Housing	8EV 003 361-022
24V	Black Housing	8EV 003 361-012



Single Speed "Jet" Fan

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



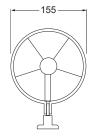
- Switch in front of the blade guard.
- Side, upright or pendant mounting.

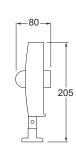
Material Description Impact resistant plastic

Switch ON/OFF switch Output 40 litres / sec.

3.5W **Power Consumption**

Installation Pre-wired with 1.4m / 4.6ft of cable





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Housing Colour Part Number Voltage 8EV 006 239-002 12V Black Housing 8EV 006 239-012 12V White Housing



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 can not 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)

1250 Amps (10 seconds) Cranking

48V DC Max. Voltage

275 Amp Battery Master Switch

Part Number

6EK 998 540-001 9XT 998 011-001 Spare label set





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 can not 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 pad locked. 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") ON / OFF Operation

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

Part Number

6EK 998 540-061 Spare label set 9XT 998 011-001









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 pad locked. Suitable for surface or recess mounting by cutting an 85mm diameter hole.



Tin plated copper studs and nuts

Termination Stud Size 3 x 10mm (3/4")

Degree of Protection IP 56

Max. Load 12 / 24V DC Continuous 350 Amps - B1 or B2

1-2-Both-OFF

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

Part Number 6EB 998 540-201

Operation

Battery Switches

Hella marine 🕮



2843 Series - 50 Amp Battery Master Switch

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

Housing Description
Cable Connection

Max. load

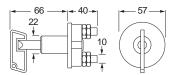
2 screw terminals, M10

Impact resistant plastic

Degree of Protection IP X4

12V / max. 1000A (10 seconds)

24V / max. 500A (10 seconds) (compliant with VDA 72750)



50 Amp Battery Master Switch

 Part Number
 Spare Key Number

 6EK 002 843-011
 9SL 706 729-011

1559 Series - 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

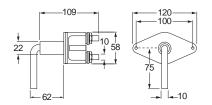
Cable Connection 2 screw terminals, M10

Degree of Protection IP X4

Max. Load 12V / 24V max. 2500A (10 seconds)

Max. Continuous Load 12V / 24V max. 100A

24V / max. 2500A (10 seconds) (compliant with VDA 72750)



100 Amp Battery Master Switch

 Part Number
 Spare Key Number

 6EK 001 559-001
 9SL 042 991-001



Voltage Sensitive Relay - "Dual battery charging made easy"

The Voltage Sensitive Relay (VSR) allows two batteries to be charged at the same time. When the engine is started and the start battery reaches 13.7 volts, the VSR engages, allowing two battery banks (start and auxiliary) to be charged simultaneously. When the voltage drops below 12.8 volts (eg the engine is stopped), the VSR disengages, separating the batteries. This system eliminates the possibility of draining the start battery and protects sensitive electronic equipment powered from the auxiliary battery from harmful engine



Tin copper studs and nuts

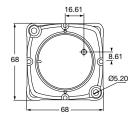
Termination Stud Size 2 x 6mm (1/4")

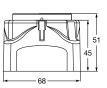
 Degree of Protection
 IP 56

 Voltage
 12V DC

 Max. Load 12 DC
 140 Amps

Dimensions $68 \times 68 \times 50 \text{mm} (W \times D \times H)$





Voltage Sensitive Relay

Part Number

start up spikes.

5RD 99**8 556**-011



Stainless Steel Switches

8455 Series Push Button Switches

Attractive, exterior durable, stainless steel switches featuring an attractive ring of LED light.

Manufactured from 304 stainless steel, these through panel mount switches are IP67 rated when installed and ideal for switching lighting or installing into custom switch panels. The light rings may be wired to show power to a system or signal circuit activation. The range also includes matching stainless steel warning buzzers with LED light rings.

Button Material304 Stainless SteelBody Material304 Stainless Steel

Contact Material Silver Alloy

Terminal Type 5 Pin (2.8 x 0.5mm) switches

2 screws for buzzer

 Panel Thickness
 1~ 10mm

 Operating Temp
 -20°C~ +55°C

 Insulation Resistance
 ≥ 1000mΩ

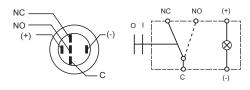
 Contact Resistance
 ≤ 50mΩ

 Max. Switch Rating
 5A

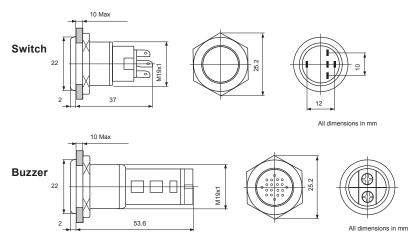
Degree of Protection IP 67 for switches

IP 50 for buzzer

Buzzer sound intensity >80dB (1m)







Stainless Steel Switches with LED Ring - Latching						
Light Colour	Voltage	Operation	Part Number			
Red	12V DC	On / Off	8HG 95 8 455 -001			
Blue	12V DC	On / Off	8HG 95 8 455 -011			
Red	24V DC	On / Off	8HG 95 8 455 -101			
Blue	24V DC	On / Off	8HG 95 8 455 -111			

Stainless Steel Switches with LED Ring - Momentary Light Colour Part Number Voltage Operation 12V DC 8HG 958 455-201 Red Momentary 12V DC Blue 8HG 958 455-211 Momentary Red 24V DC Momentary 8HG 958 455-301 Blue 24V DC Momentary 8HG 958 455-311

Stainless Steel Buzzers with LED Ring						
Light Colour	Voltage	Operation	Part Number			
Red	12V DC	Buzzer	8HG 95 8 456 -001			
Red	24V DC	Buzzer	8HG 95 8 456 -101			

Light Dimmer

Hella marine 🕮



 (ϵ)



8572 Series - 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 100W at 12V and 200W at 24V Max. Load Per group

Input Voltage Range 8 - 30V DC 12V or 24V DC System Voltage

Number of Groups

Switches Per Group Unlimited

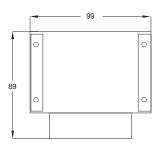
Switch Type Momentary normally open

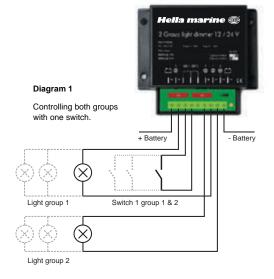
Weight 140 grams

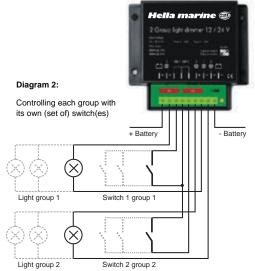
Protections Overload, Temperature, Low voltage

2 x 10A Fuse









2 Group Light Dimmer

Part Number

5XA 998 572-001

Plugs and Sockets



Water Resistant Plugs and Sockets

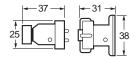
Chrome brass plugs and sockets for exterior or interior installations.

Socket includes plastic cap.

Plug suitable for cable up to 6.5mm diameter.

Material Description Chrome brass housings. Brass contacts

Maximum Load 22A at 12V
Installation Screw terminals



Water Resistant Plugs and Sockets

Description	Part Number
2 Pin	8JA 00 2 620 -801
3 Pin	8JA 00 2 807 -801
4 Pin	8JA 00 2 957 -801



Chrome Brass Deck Glands - Ensures waterproof cable entry.

Cable DiameterGland dimensionsPart NumberCables up to 8mm dia.18mm high x 32mm base diameter9NM 004 208-001Cables up to 12mm dia.18mm high x 38mm base diameter9NM 004 209-001



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 contacts.

Degree of Protection IP 67

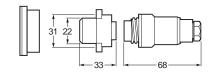
Maximum Load 2 to 4 pin: 16A at 12V. 7 pin: 10A at 12V

Installation 2 to 4 pin: Screw terminals

7 pin: Solder terminals

Mounting 2 to 4 pin: Flush mounting

7 pin: Surface mounting



Waterproof Plugs and Sockets

Description	Part Number
2 Pin Plug and Socket	8JA 00 6 801 -801
3 Pin Plug and Socket	8JA 00 6 803 -801
4 Pin Plug and Socket	8JA 00 6 805 -801
7 Pin Plug and Socket	8JA 00 6 807 -801



Mounting Ring

For surface mounting of the socket.

Includes stainless steel screws and rubber gasket

Part Number

8XT 006 798-001

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

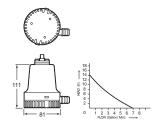
Pumping Capacity 1500 l/h / 400 GPH
Voltage 12V DC

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

Voltage

Delivery Head

Power Consumption

Outlet Hose Internal Diameter

Outlet Hose External Diameter

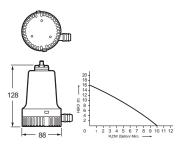
2300 l/h / 600 GPH

5m

5A

13.5mm

20.0mm





8TW 005 344-001

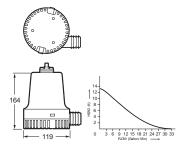
Pumping Capacity 6500 l/h / 1750 GPH Voltage 12V DC

Delivery Head4mPower Consumption10AOutlet Hose Internal Diameter25.0mmOutlet Hose External Diameter30.0mm



Pumping Capacity 6500 l/h / 1750 GPH

Delivery Head4mVoltage24V DCPower Consumption5AOutlet Hose Internal Diameter25.0mmOutlet Hose External Diameter30.0mm



Replacement Bulbs



Navigation Lamp Bulbs. BAY15d Base

Voltage	Wattage	Base	
40	- 40/40	DAVAE	
12	>10/12	BAY 150	
12	25/30	BAY15d	
24	>10/12	BAY15d	
24	25/30	BAY15d	
	12 12 24	12 >10/12 12 25/30 24 >10/12	12 >10/12 BAY15d 12 25/30 BAY15d 24 >10/12 BAY15d





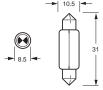




Part Number	Voltage	Wattage	Base	ECE Category
8GA 00 2 071 -121	12	5	BA15s	R 5W
8GA 00 2 071 -241	24	5	BA15s	R 5W
8GA 00 2 071 -131	12	10	BA15s	R 10W
8GA 00 2 071 -251	24	10	BA15s	R 10W
8GA 00 2 071 -271	12	21/5	BA15s	P 21/5W
8GA 00 2 070 -121	12	15	BA15s	F
8GA 00 2 072 -121	12	18	BA15s	R
8GA 00 2 072 -241	24	18	BA15s	R
8GA 00 2 073 -121	12	21	BA15s	P 21W
8GA 00 2 073 -241	24	21	BA15s	P 21W

Navigation Lamp and Interior Lamp Bulbs. SV8.5 Base





Part Number	Voltage	Wattage	Base	ECE Category
8GM 00 2 091 -131	12	10	SV8.5	К
8GM 00 2 091 -251	24	10	SV8.5	K
8GM 99 3 406 -001	12	10	SV8.5	
8GM 00 2 091 -121	12	5	SV8.5	C 5 W
8GM 00 2 091 -241	24	5	SV8.5	C 5 W

Replacement Bulbs







Deck Floodlamp Bulb. GX5.3s Base

Part Number	Voltage	Wattage	Base
8GH 99 8 529 -001	12	20	GX5.3







Part Number	Voltage	Wattage	Base	ECE Category
8GH 00 2 090 -131	12	55	PK22s	H3
8GH 00 2 090 -251	24	70	PK22s	H3
8GH 00 2 090 -151	12	100	PK22s	H3



Deck Floodlamp and Search Light Xenon capsules. D2S

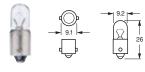
Part Number	Voltage	Wattage	Base	ECE Category
8GH 00 2 091 -001	12/24	35	P32d-2	D2S

Halogen Interior Lamp Bulbs. G4 Base



Part Number	Voltage	Wattage	Base
8GH 00 5 758 -141	12	5	G4
8GH 00 5 758 -131	12	10	G4
8GH 00 5 758 -121	12	20	G4
8GH 00 5 758 -241	24	20	G4
8GH 00 5 758 -251	24	10	G4
8GH 00 5 758 -261	28	10	G4
8GH 00 5 758 -271	28	20	G4

Halogen Interior Lamp Bulbs. BA9s Base



Part Number	Voltage	Wattage	Base	ECE Category
8GH 00 2 473 -132	12	2	BA9s	
8GH 00 2 473 -151	12	5	BA9s	
8GH 00 2 067 -121	12	4	BA9s	T 4 W
		<u>-</u>		
8GH 00 2 067 -241	24	4	BA9s	T 4 W
8GH 00 2 066 -122	12	6	BA9s	

Compact Fluorescent Tubes. TL8 and 2G7 Base



Part Number	Wattage	Base	Luminous Flux	
8GS 86 1 953 -001	8	TL8	400 lm	
	_			
8GS 86 1 955 -001	7	2G7	400 lm	
8GS 86 1 955 -011	9	2G7	600 lm	
8GS 86 1 955 -021	11	2G7	900 lm	

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