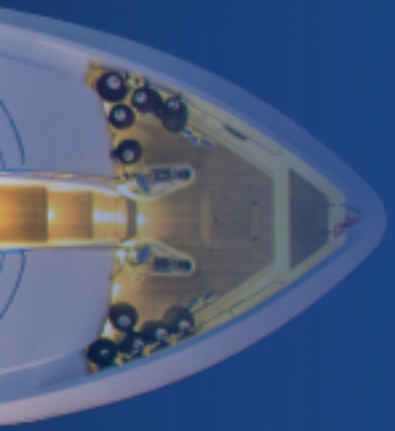
AMPERMARINE
PRODUCT CATALOGUE

Innovative Technologies



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AMPERMARINE *WUWLED*

Underwater lights with wireless energy transfer.

No holes in the hull, totally safe system.

Patented technology

Innovative underwater lights for non metallic hulls with wireless energy transfer technology that lets their use without having to make dangerous holes.
• It does not heat the hull and does not generate galvanic currents, ensuring the boat safety.
• Automotive qualified components for greater robustness.
• Resistant to voltage peaks up to 60V and with self-shutdown function in case of over-heating or over-voltages.

1. **It does not require maintenance. Easy to install.**
2. **Bicolor white and blue light available in 100W led or 12W led.**
3. **Latest generation Osram LEDs for a brilliance of light never seen before.**
4. **Glass with self-cleaning anti-fouling Nano treatment and anti-condensation technology.**

Technical Specifications

Double led color: WHITE / BLUE
Total power: up to 100W
White temperature: 5.000K (OSRAM Led)
Driver type: integrated
Protection: polarity reversal, overheating, short circuits, electrostatic charges, voltage peaks. Contains automotive qualified components
Resistance to voltage peaks: 60Vdc
Lens material: tempered glass with self- cleaning Nano-technological treatment, against the formation of algae and salt depositing.
External screws material: Titanium

Waterproof: IP68
Minimum distance from the transmitter for metal parts: 30cm
Operating modes: external switch (not supplied), CAN BUS or WiFi (optional app). Removable from the hull

Conformity
RoHs: 2011/65/EU
Electromagnetic compatibility: 2014/30/EU

** Supplied Wuwled kit includes the transmitter station*

AMPERMARINE

	WUWLED	MINI-WUWLED
LUMINOUS INTENSITY	12.000 lm	1.500 lm
POWER SUPPLY	24Vdc	12Vdc or 24Vdc
LUMINOUS FLUX DEPTH	13m	12m
ABSORPTION	8A @ 24Vdc	0,8A @ 24Vdc / 1,6A @ 12Vdc
INSTALLATION DISTANCE TX TO RX	90mm	Min. 3mm - Max. 40mm
PROJECTOR DIMENSIONS	Ø 210mm x thickness 23,4mm	Ø 115mm x thickness 17,6mm
TRANSMITTER DIMENSIONS	275mm x 275mm x thickness	168mm x 168mm x thickness
CODE	76,5mm XWPT01	60mm MWPT01

OPTIONAL ACCESORIES

Cod. **KFCA01** Fixing Kit without fasteners, only glue for up to 2 Wuwled or for up to 6 mini Wuwled
Cod. **PICA01** Bi-component glue application gun
Cod. **KFGX01** Fixing Kit with fasteners for 2 Wuwled
Cod. **KFGM01** Fixing Kit with fasteners for 4 mini Wuwled
Cod. **PULSKIT24** Kit with 2 backlit screw-on panel IP68 buttons for Wuwled and miniWuwled setting and control

ON DEMAND CUSTOMIZABLE ACCESSORIES:

- App for mobile devices
- Power supply unit for 230Vac systems (accordingly optimized and tested for WUWLED devices)
- Shaped base for removable transmitter installation

AMPERMARINE *WIRED Underwater Lights*

Wired underwater lights with powerful light output.

Daylight effect.

Embedded technology

The maximum expression of technology and innovation in a product that brings marine underwater lights into a new era.

- It does not heat the hull and does not generate galvanic currents, ensuring the boat safety.
- Automotive qualified components for greater robustness.
- Resistant to voltage peaks up to 60V and with self-shutdown function in case of over-heating or over-voltages.

1. **It does not require maintenance. Easy to install.**
2. **Bicolor white and blue light available in 105W led or 60W led.**
3. **Latest generation Osram LEDs for a brilliance of light never seen before.**
4. **Glass with self-cleaning anti-fouling Nano treatment and anti-condensation technology.**

Technical Specifications

Double led color: WHITE / BLUE
Total power: up to 105W
White temperature: 6.500K (OSRAM Led)
Driver type: integrated
Protection: polarity reversal, overheating, short circuits, electrostatic charges, voltage peaks. Contains automotive qualified components
Resistance to voltage peaks: 60Vdc
Lens material: tempered glass with self- cleaning Nano-technological treatment, against the formation of algae and salt depositing.
External material: Technological resin

Waterproof: IP68
Operating modes: external switch (not supplied), CAN BUS or WiFi (optional app). Removable from the hull

Conformity
RoHs: 2011/65/EU
Electromagnetic compatibility: 2014/30/EU

	ECLYPSE	QUASAR
LUMINOUS INTENSITY	15.000 lm	6.000 lm
POWER SUPPLY	24Vdc	12Vdc or 24Vdc
LUMINOUS FLUX DEPTH	14m	13m
ABSORPTION	8A @ 24Vdc	2,5A @ 24Vdc / 5A @ 12Vdc
PROJECTOR DIMENSIONS CODE	Ø 210mm x thickness 23,4mm	Ø 115mm x thickness 17,6mm 168mm
	XCPB01	MCPB01

OPTIONAL ACCESORIES

Cod. **KFCA01** Fixing Kit without fasteners, only glue for up to 2 Eclypseor for up to 6 Quasar
Cod. **PICA01** Bi-component glue application gun
Cod. **KFGX01** Fixing Kit with fasteners for 2 Eclypse
Cod. **KFGM01** Fixing Kit with fasteners for 4 Quasar
Cod. **PULSKIT24** Kit with 2 backlit screw-on panel IP68 buttons for Eclypse and Quasar setting and control

ON DEMAND CUSTOMIZABLE ACCESSORIES:

- App for mobile devices
- Power supply unit for 230Vac systems (accordingly optimized and tested for Eclypse devices)
- Shaped base for removable transmitter installation

AMPERMARINE *SMARTSPOT*

Embedded electronics
latest generation led, smart spotlights.

No external driver or controller, Smartspot is the innovative recessed spotlight with embedded electronics. It can be used as a simple light point or inserted in a CAN BUS or DALI system for total light control. Ideal both for indoor and outdoor environments.

1. Homogeneous light surface to hide the individual top-of-the-range OSRAM LED sources.

2. Automotive qualified components for greater robustness.

3. Resistant to voltage peaks up to 60Vdc and with auto shut-off function in case of overheating or over-voltages. 4. Very low heat emitted for almost no impact on the environment temperature.

5. Super light, thanks to the totally plastic cooling system.

6. Total homogeneity, thanks to the internal light sensors that balance the intensity differences among spotlights. 7. Switching on and off with Fade in / Fade out effect to not tire your eyes.

8. Real and deep dimming with no light flickering.

	SMARTSPOT 80 ON-OFF	SMARTSPOT 80 WCAN	SMARTSPOT 80 TW	SMARTSPOT 80 H	SMARTSPOT 80 RGBW	SMARTSPOT 50 ON-OFF	SMARTSPOT 50 WCAN
OUTPUT POWER	8,4W	8,4W	8,4W	8,4W	8,4W	4,8W	4,8W
POWER SUPPLY	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc	24Vdc
ABSORPTION	0,35A max @24Vdc	0,35A max @24Vdc	0,35A max @24Vdc	0,35A max @24Vdc	0,35A max @24Vdc	0,2A max @24Vdc	0,2A max @24Vdc
WATERPROOF	IP68	IP68	IP68	IP68	IP68	IP68	IP68
DIAMETER	82mm	82mm	82mm	82mm	82mm	50mm	50mm
LIGHT COLOR	White 3000K CRI 90	White 3000K CRI 90	White 3000K CRI 90	White 3000K CRI 90	White 3000K CRI 90	RGBW	White 3000K CRI 90
DIMMABLE	-	YES	YES	YES	YES	-	YES
HAZARD LIGHT FUNCTION	-	-	-	YES	-	-	-
SYSTEM TYPOLOGY	Standard	CAN BUS	CAN BUS	CAN BUS	CAN BUS	Standard	Standard
FADE IN/FADE OUT	-	YES	YES	YES	YES	-	YES
INTENSITY AUTO BALANCING	-	YES	YES	YES	YES	-	YES
TOTAL HEIGHT	44,4mm	44,4mm	44,4mm	44,4mm	44,4mm	44,4mm	44,4mm
COD.	SLLXWHI01	SLLXCAN01	SLLTCAN01	SLLHAZA01	SLLRGBW01	SLMXWHI01	SLMXCAN01

ON DEMAND CUSTOMIZABLE ACCESSORIES:

- DALI systems compatibility

AMPERMARINE *PINSPOT*

The smallest, latest generation spotlight, a diamond of light.

With its very small size, Pinspot is the ideal spotlight to create a spectacular "Starry sky" effect or to create a frame of light or a serie of mark step lights. Ideal for indoor and outdoor environments.

1. **OSRAM top-of-the-range LEDs.**
2. **Super light thanks to the absence of the heat sink.**
3. **Switching on and off with Fade in / Fade out effect to not tire your eyes.**
4. **Very low heat emitted for almost no impact on the environment temperature.**

	PINSPOT A	PINSPOT B
OUTPUT POWER	0,42W	0,42W
POWER SUPPLY	Driver 24Vdc	Driver 24Vdc
ABSORPTION	0,15A max @2,8Vdc	0,15A max @2,8Vdc
WATERPROOF	IP68	IP68
DIAMETER	13,4mm	13,4mm
LIGHT COLOR	White 3000K	Blue
DIMMABLE	YES	YES
SYSTEM TYPOLOGY	Standard	CAN-BUS
FADE IN/FADE OUT	YES	YES
TOTAL HEIGHT	25,3mm	25,3mm
COD.	SLSXWHI01	SLSXBLU01

AMPERMARINE *FELIS*

Can bus interface for keyboards, up to 8 isolated inputs.

Miniaturized electronic interface to connect third party keyboards to a CAN BUS line. Up to 8 isolated and voltage-free inputs (through connection to ground). Up to 8 feedback outputs for LED indicators (High Side outputs to +V power supply.

1. **Absence of dangerous connectors.**
2. **Automotive qualified components for greater robustness.**
3. **Resistant to voltage peaks up to 60Vdc.**
4. **Easy to install.**

	FELIS
NUMBER OF ISOLATED INPUTS	8 with isolated and voltage-free contacts active to ground
POWER SUPPLY	10Vdc --> 36Vdc
NUMBER OF FEEDBACK OUTPUTS	8
FEEDBACK OUTPUTS POWER	8 x 36Vdc max @ 50mA
DIMENSIONS	98x98xh32mm
WATERPROOF	IP68
SYSTEM TYPOLOGY	CAN BUS
COD.	FLICANK01

AMPERMARINE *REGULUS*

CAN BUS manager
for third party electric lights and motors, no external relais.

Advanced control module to power up to light sources or electric motors. Directly connectable to a CAN BUS line, Regulus has internal power switching circuits.

1. **Absence of dangerous connectors.**
2. **Automotive qualified components for greater robustness. Resistant to voltage peaks up to 60Vdc.**
3. **It is possible to assign predefined and user programmable scenes.**
4. **DSP inside, to generate suitable dimming signals dedicated to any type of low voltage light load.**

	REGULUS DC24	REGULUS AC230
CONNECTABLE DEVICES	12Vdc e 24Vdc LED or halogen lights with PWM, ON/OFF, ON/OFF, Fade in/Fade out	Curtains, liftings, resistive loads ON/OFF, and max 1,5Arms motors
OUTPUTS /INPUTS	8 independent fully program-mable solid state outputs and 8 user configurable voltage free insulated inputs for activating direct setting.	6 outputs con-figurable as stand alone or coupled with Up/Down operating logic with logic protection
POWER SUPPLY	10Vdc ->36Vdc	10Vdc ->36Vdc
PROTECTION FUSE	Active internal	External (not included)
DIAGNOSTICS	Auto-diagnosis local and remote	Auto-diagnosis local and remote
DIMENSIONS	207 x 141 x h55mm	207 x 141 x h55mm
WATERPROOF	IP68	IP68
EXTERNAL RELAIS	NO	NO
SYSTEM TYPOLOGY	CAN-BUS	CAN-BUS

AMPERMARINE *SWITCHES*

Totally sealed,
for every need.

Switches for nautical environment with automotive derivation mechanisms to bring functionality to the highest level. The only ones with IP69K degree also on the connection side. Available in numerous combinations, backlit and with customizable graphics. 2 or 3 positions, stable or momentary leverage.

Symbols customizations on the caps on demand.

1. The highest level of protection IP69K, they can be immersed in water and washed under high pressure.

2. Button finishing in anti-scratch paint, graphic symbols obtained by laser etching.

3. High smoothness of the kinematics to offer a uniform shot with the right sensitivity.

4. Tested at minimum 100,000 life cycles.

5. With customizable installation frame

MAX CURRENT	12A max@12Vdc
OUTPUT PINS	10
ABSORPTION	Electrical load 7mA min
BACKLIGHTING COLOR	White
POSITIONS	2 o 3, central zero, stabie or momentary
HEIGHT	80mm
FIXTURE	21,1mm x 36,8mm, thick-ness 1,5mm to 4mm
WATERPROOF	IP69K
STATUS LED	YES

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