



Issue M16b 29.10.15

# BGB SILS

## Submersible Inductive Lighting System

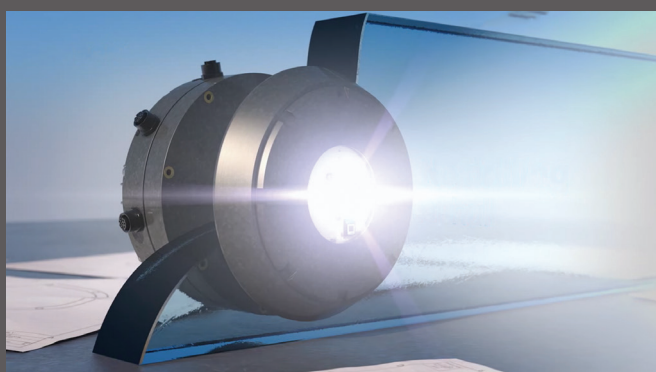
### Contactless Technology



The new BGB Submersible Inductive Lighting System (SILS) uses induction contactless technology to power the LED cluster used within the exterior light.

Electromagnetic induction is the near field wireless transmission of electrical energy between two coils that are tuned to resonate at the same frequency. The two coils may exist as a single piece of equipment or comprise two separate pieces of a singular unit.

BGB SILS operates by having the primary unit (the housing for all the inverter electronics and communication control) on the inside of the marine vessel, lined up with the secondary unit (the luminaires and drive circuitry) on the exterior of the vessel. Both units are positioned in place by marine grade adhesives.



The operator can tune into the surrounding SILS wifi zone (approx 50m) with their tablet or mobile device and control the RGB-W coloured LEDs with a simple slide of a finger.

SILS does not require any drilling or penetration of the hull in any way (an obvious benefit of using induction systems in the marine industry). The lights can be easily retrofitted without fear of leaks or bad workmanship by an outside electrician and gives peace of mind that the vessel has not been weakened in any way with a hole.

BGB's manufacturing expertise and technological know-how has been the driving force behind patenting the inductive control technology. This allows BGB to be the only underwater lighting manufacturer to be able to offer control of inductive power transfer for lighting within the maritime industry.



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