Underwater RGB LED Boat Light

Important: Read all instructions prior to installation.

User Manual

Part Number: UBL-RGB120

Features

- 316L Marine Grade Stainless Steel
- Poly-Carbonate Lens
- 5 Ft Power Wire (18AWG)
- Over-Temp Protection
- Waterproof IP68

Specifications

| 120W RGB LED Underwater Boat Light |
|-------------------------|--------------------------|
| Input Voltage          | 9 ~ 15 VDC               |
| Current Draw           | 8.0 @ 13.5VDC            |
| Total Power Consumption| 108W @ 13.5VDC           |
| Operating Temperature  | -22°F~122°F (-30°C~50°C) |
| LED Lifetime           | 50,000 Hours             |
| Warranty               | 3 Years                  |
| Dimensions             | Dia. ø 3.69in (9.4cm), Thickness 0.67in (1.7cm) |
| Weight                 | 1.43 lb (0.65kg)         |

Installation Instructions

1. Determine desired mounting location on boat's transom. Be sure to check actual draft water level if operating LED lights at speed. (See Diagram Below) Recommended mounting depth between 6-8” below waterline for best effect. Be sure that mounting location is free of any obstructions before drilling through hole. Mark center of desired location.

2. Drill 1/4” through hole in center of desired location and feed power wire through hole into boat. Hold light flush against transom, mark location for mounting screws, then remove light. Drill pilot holes for mounting screws to prevent cracking in fiberglass hulls.

3. Use heavy grit sandpaper to rough up the surface and to remove any debris from drilling. Clean area using alcohol and lint free cloth.

4. Apply uniform layer of marine sealant to back side of light, especially around mounting holes and wire connection. Also apply marine sealant to transom surface around pilot and through holes.

5. Feed power wire back through 1/4” hole into boat and press light against transom using uniform pressure. Install mounting screws with included neoprene washers and tighten light to transom.

6. Use sealant that has squeezed out from beneath light to create complete seal around outer edge of light. Remove any excess sealant.

7. Connect Black (positive) wire from Light to V+ on Controller. Connect remaining negative wires from Light to Controller. Connect Red to R, Green to G and Blue to B.

8. Connect positive (RED) wire to positive battery terminal through fuse to switch (see diagram below). Connect negative (BLACK) wire to negative battery terminal. Marine grade heat shrink butt connectors and ring terminals are recommended.

9. Ensure light is solidly attached to hull and that marine sealant has fully cured prior to putting boat in water. Lights may be tested briefly while out of water. Lights will overheat and shut down if operated out of water for more than testing.

Parts Included

- Underwater Boat Light
  1- (UBL-RGB120)
- M5 Machine screws
- M5 Flat washers
- M5 Locking Nuts
- M5 Self Tapping screws
- Neoprene washers

Recommended Accessories

- Multi Zone Controller with Remote (LDRF-RGB-MZ)
- Additional Controller (RGB-MZ)
- Additional Remote (MZ-RGB-REMOTE)
- Mounting Bracket (UBL-MB2)

Recommended Tools (not included)

- Drill and Drill Bits
- #2 Phillips Screwdriver
- Heavy Grit Sandpaper
- Isopropyl/Denatured Alcohol
- Pencil (Wax Pencil recommended for fiberglass)

Caution

LIGHTS MUST BE SUBMERGED TO AVOID OVERHEATING. USE OUT OF WATER WILL DECREASE LED LIFETIME AND CAUSE EARLY FAILURE. LIGHTS HAVE OVER TEMPERATURE PROTECTION (FOR TESTING PURPOSES ONLY) AND WILL SHUT OFF WHEN MAX TEMP (194 F / 90 C) IS REACHED. DO NOT OPERATE LIGHTS OUT OF WATER FOR MORE THAN 2 MINUTES FOR TESTING. LIGHTS WILL BE HOT IF OPERATED OUT OF WATER FOR EXTENDED PERIODS. INSTALLATION OF LIGHTS MUST BE DONE WHILE BOAT IS OUT OF WATER AND DRY. SBL IS NOT RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE INCURRED DUE TO IMPROPER INSTALLATION.

Installation Instructions

TIP: Know your hull; most common type is fiberglass. Wood, metal and carbon fiber are other less common hull types. For metal or carbon fiber hull, first be sure to mount an insulating material between metal or carbon fiber surfaces and lights to prevent galvanic corrosion. If uncertain about type of hull, please contact boat manufacturer for assistance.
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Installation Instructions (continued)

Wiring Diagram

Controller Pairing

Pairing a remote to a controller:
1. Turn on the power to and press the "Zone ON button" once within 3 seconds for the zone you wish to pair.
2. If successful the LEDs will flash twice slowly.
3. If the LEDs flashes nine times quickly or not at all, repeat steps one and two.

Unpairing a remote to a controller:
4. Turn on the power to Controller and press and hold the "Zone ON button" once within 3 seconds for the zone you wish to unpair.
5. If successful the LEDs will flash nine times quickly.
6. If the LEDs flashes twice slowly or not at all, repeat steps one and two.

Pairing Note:
1. One Remote can be paired to any number of Controllers.
2. One Controller can be paired to up to four Remotes.