

# RGBW LED CONTROLLER

## INSTALLATION / OPERATION GUIDE

### ⚠ WARNING: PLEASE READ AND SAVE THESE INSTRUCTIONS.

This installation / operation guide contains important safety and operating instructions. To reduce the risk of injury, please follow these instructions and those published by the vessel manufacturer and manufacturer of any equipment you intend to use with this unit. If you do not understand any of the instructions listed, DO NOT attempt to install. Professional installation by a qualified marine technician is recommended. The manufacturer is not liable for damages of any kind

### ⚠ IMPORTANT NOTICE:

**Read all instructions before operating or installing this product. Failure to follow all instructions listed below may result in the following: Electric shock, Fire, Serious Injury or Death, and/or Property Loss or Damage.**

**KEEP OUT OF REACH OF CHILDREN. NOT FOR COMMERCIAL OR INDUSTRIAL USE.**

### ⚠ CAUTION: RISK OF ELECTRICAL SHOCK IF NOT INSTALLED PROPERLY.

⚠ CAUTION: Connect only to properly fused circuits.

⚠ CAUTION: Keep all wires and cords away from heat, oil, and sharp edges.

⚠ CAUTION: Replace defective, worn or frayed cords or wires immediately before use.

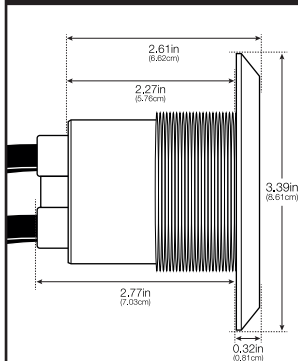
⚠ CAUTION: Follow instructions properly. A spark near battery may cause battery explosion.

⚠ CAUTION: DO NOT look directly or indirectly into LED lights while powered on.

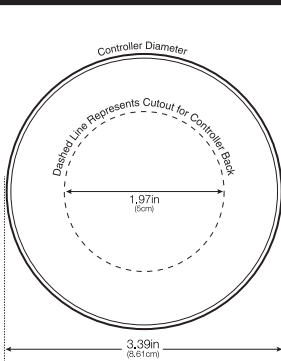
### MATERIALS NEEDED

- Electric Power Drill
- Clean Fabric / Shop Towel
- Jig Saw or 2" Hole saw
- Ruler / Tape measure
- Wire Strippers
- Voltmeter
- Fine Tip Marker or Pencil
- Heat Shrink Butt Connectors
- Heat Gun
- 50:50 mix - Isopropyl Alcohol and Water.
- Marine grade Red, Green, Blue, White, Black -5 conductor.  
(Length will vary depending on application)

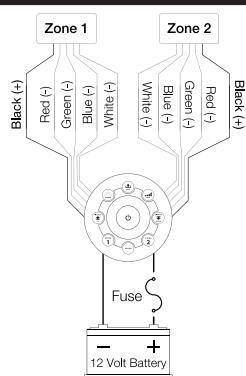
#### SIDE VIEW



#### CUTOUT / DRILL HOLE DIAGRAM



#### WIRING DIAGRAM



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### INSTALLATION INSTRUCTIONS:

**Please Note:** The controller is designed to operate two lighting zones. If single zone operation is required, please follow the wiring instructions for Zone 1 only and seal the ends of Zone 2 using marine grade heat shrink tubing.

- 1) Disconnect the negative battery terminal during installation.
- 2) Locate a desired mounting position on a flat surface for the controller unit. Make sure the location provides ample space with no obstructions for the installation of the faceplate and the cut out location has ample space to receive the rear of unit and the required wiring.
- 3) Measure and then mark out for a 2" round hole.
- 4) Double check that there is a minimum of 4 1/2" of clearance behind the controller mounting location before cutting out the hole.
- 5) Use 2" hole saw or a jig saw to cut the hole.
- 6) Make sure the mounting area surface is clean. 3M™ recommends cleaning with a 50:50 mixture of isopropyl alcohol (IPA) and water prior to applying 3M™ VHB™ Tapes. (Test mixture on surface to make sure it does not damage it)
- 7) Remove the large nut behind the controller.
- 8) Carefully insert the wires and the controller in the hole to verify fitment.
- 9) Remove the controller and then remove the red 3M™ VHB™ tape backing material.
- 10) Insert the wires and then the controller into the hole in the desired position. Press firmly against the bezel.
- 11) Reinstall the large nut onto the back of the controller and firmly hand tighten.
- 12) Connect the RED (+) wire from the INPUT side of the switch to a minimum 16 gauge marine grade wire using a heat shrink electrical terminal. Attach to a fused circuit using a 7.5 Amp fuse.
- 13) Connect the Black (-) wire from the INPUT side of the controller to a battery ground source using a minimum 16 gauge wire. Use a heat shrink electrical terminal.
- 14) Plan the lighting scheme for both Zone 1 and Zone 2 along with the wiring path for both. **DO NOT exceed a 3 Amp draw per zone. (Example: if you are connecting lights with a 750mA draw (1000mA = 1 Amp) - 4 lights total can be operated from that Zone.)**
- 15) Determine the distance from the controller to the light/s that each zone will operate.
- 16) Use a marine grade -5 conductor - Red, Green, Blue, White, Black wire (sold separately) from the controller unit to connect the light(s) for each zone.
- 17) Connect each individual color wire from the controller to the corresponding color wire from the light(s) using heat shrink electrical terminals. Red to Red, Green to Green, Blue to Blue, White to White, Black to Black for each Zone.
- 18) Multiple lights may be added to the controller. **DO NOT EXCEED a 3 Amp draw per Zone.**
- 19) Reconnect the negative terminal on the battery.

