Setup Guide

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Technical Specifications

DC Input Voltage: 6-37V
Backup DC Input Voltages: 6-37V
Nominal Current: 80mA (12V), does not include switch output or 12V output
Alarm Terminals: 12V 12V Regulated Output: 500mA max including switch output

Operating Temperature: -20 to 60C

Enclosure: IP67 when cable glands properly sealed

Note: Follow ABYC standards for installation.

Note: Incorrect wiring may damage Triton or external devices and voids warranty.

On occasions, this document may be updated.

Quick Start

1. **IMPORTANT: Ensure there is no power flowing to Triton in completing Steps 2 - 12** to avoid component damage and to prevent voiding the warranty.

2. **Run GPS and SAT cables** from where Triton will be mounted to the location where the GPS and SAT antenna will be mounted. The antennas are suitable for outdoor installation or under an unobstructed fiberglass deck with no emi interference. If the boat is constructed from carbon fiber, the antennas cannot be mounted below deck.
    a. **Note: The provided 25' antenna cables cannot be extended due to change in resistance. If a longer cable is required, contact support@nauticalert.com**

3. **Remove the Triton cover** to access terminal blocks. **Terminal block diagram arrangement and labels are defined in Figure 1.0**

4. **With power off connect DC power source** to Main DC Power terminals.

    a. **Note: DC power source should be continuous power, as Triton is a security device and needs power at all times like a bilge pump.**

    b. **Note: Follow ABYC standards. DC power sources to Triton require a fuse/ circuit breaker in accordance with ABYC standards.**

    c. **Note: Triton may consume higher current in certain situations.**

5. **Optional - Connect Key Switch LED** to labeled output terminals. Can be configured for other purposes, but defaults to Key Switch LED.
    a. **Note: Requires in-line resistor.**

6. **Optional - Connect Key Switch** to labeled input terminals. Can be configured for other purposes, but default is Arm LED for Key Switch..

7. **Optional - Connect Water Float Switch** to labeled input terminals on Zone 1 block.

8. **Optional - Connect other Wired Security Devices** in unused terminals on Alarm Zones 1 - 4.

9. **Optional - Connect Siren** to the labeled terminal on Zone 2 block.

10. **Optional - Connect Beam Sensor** - see schematic diagram at the end of this document.

11. **Connect Cellular Antenna** to the external cellular jack of the Triton enclosure located near the product serial number label.
12. **Connect GPS and SAT labeled cables to respective labeled antennas** and temporarily mount the antennas to test for proper satellite signal strength.
    a. **Note: See antenna connector waterproofing bulletin at the end of this document.**
    b. **Note: Do not install antennas near Radar Dome, as emitted microwaves will damage antennas.**

13. **Connect GPS and Sat antenna cables** to the external labeled jacks on the side of the Triton enclosure.

14. **Power up Triton** and observe LEDs on the circuit board.
    Desired state for board LEDs

    - **On** LED solid green
    - **Cellular** LED solid green
    - **Satellite** LED blinking or solid green **(requires no sky obstructions)**
    - **GPS** LED blinking or solid green

15. **Validate zone assignments are correct.**
    a. **Alarm 1 Arm LED** should be lit on, if a key switch is connected.
    b. **Alarm 2 Water LED** should be lit on, if a float switch is connected.
    c. **Note: If not lit based on your options, program alarm zones using Mode and Set buttons.**

16. **Turn power source off to Triton** and fasten Triton cover to enclosure, permanently mount Triton, and permanently fasten antennas.
    a. **Note: See antenna connector waterproofing bulletin.**

17. **Seal wire glands** with silicone enough to make the ingress waterproof.

18. **Power Triton back on**.

19. **Once Triton has been activated with a Nautic Alert subscription plan**
    a. The Network LED on the exterior side of the housing will be solid green for cellular or blinking green for satellite.

Triton is now operational, but needs to be activated.

1. **Owner needs to purchase a subscription plan and create a user account** at nauticalert.com
2. **Owner needs to download mobile app** from Apple or Google stores or navigate to https://nauticalert.com/nautic-alert-mobile-app-download/ to get started.

Triton Block Diagram Arrangement

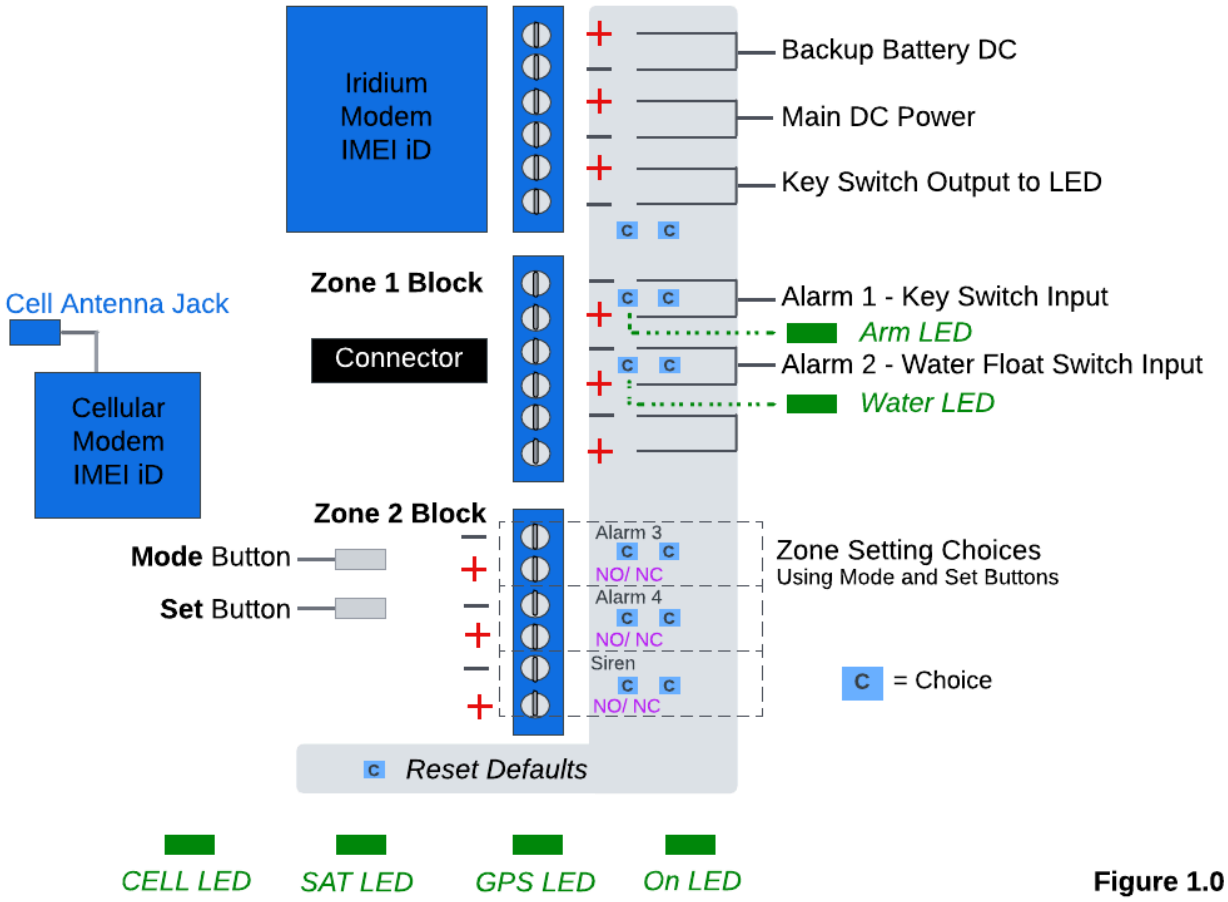


Figure 1.0

Mode and Set Buttons to Configure Zone Settings

Triton contains four alarm zones, which can be configured with the “Mode” and “Set” buttons. Mode moves the LED cursor from top to bottom to select the zone setting to change on the circuit board. Set is used to toggle through the choices for the specific zone setting selected with the Mode button to set the default value of the specific zone setting.

Reset Triton to factory defaults by selecting ‘Reset Defaults’.

For product support contact us at support@nauticalert.com

Antenna Connector Waterproofing Bulletin

Cables should be stress relieved and not subject to vibration or oscillation

Two rounds of Splicing tape (3M-130C), wound so that it tightens the connector (clockwise looking at the connector). 3M Splicing tape needs to be stretched and they recommend that the tape should be installed with the sticky side up. With small cables this is difficult, and we often put the sticky side down and maintain plenty of overlay.

The next layer is mastic tape (3M-2210) and its seam should if practical be pointed down so that if any water gets in it drains away.

Splicing Tape Application



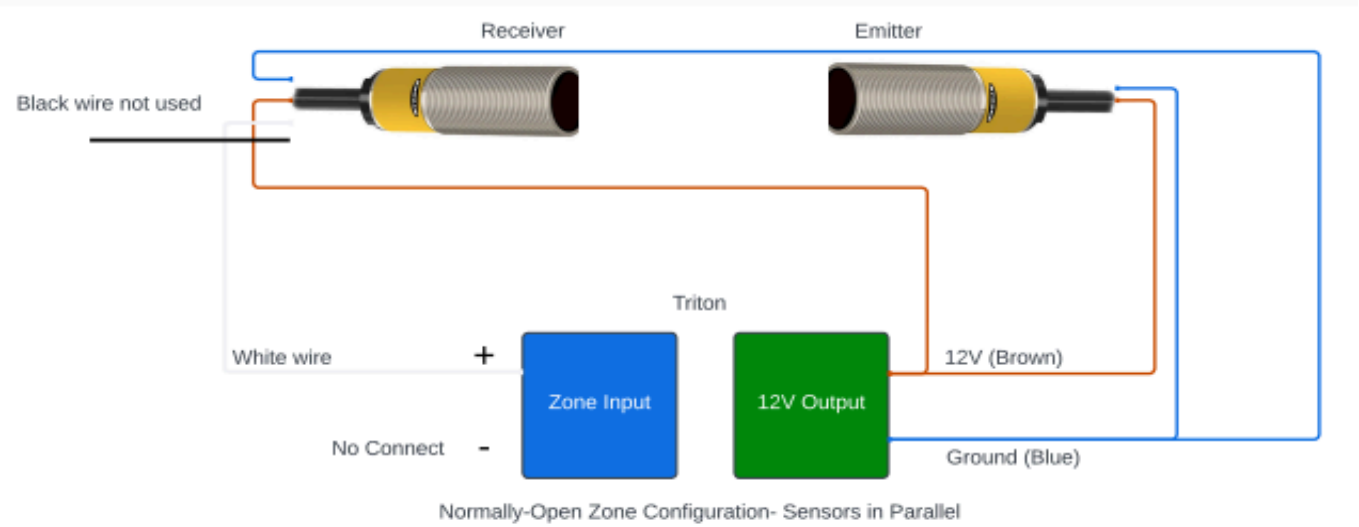
- Apply the splicing tape. Two rounds and make sure to overlap.
- Splicing tape directions call for the sticky side to be out, but it is easier to apply the first round with the sticky side against the cable and connector
- Tape should be stretched to conform to the cable and connector (tightly wound clockwise)
- Start at the antenna cable and work towards the connector and maintain sufficient overlap.
- Cover as much of the connector as possible

Mastic Tape Application

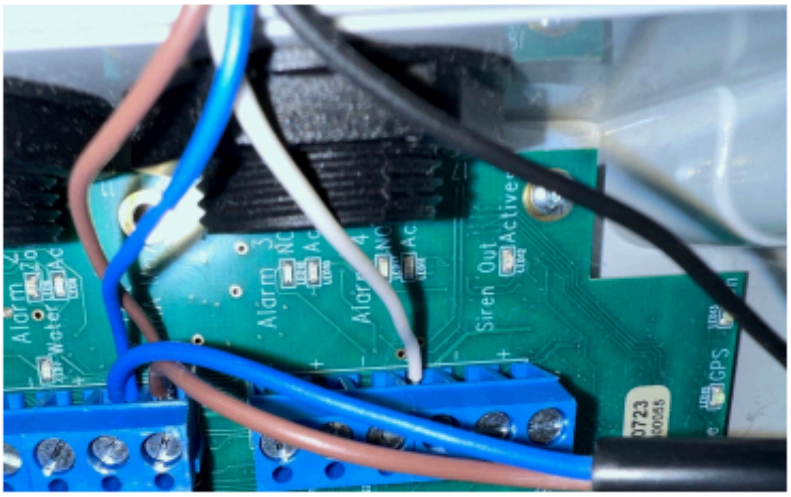


- Cut the mastic tape to conform to the shape of the connection
- Apply the mastic tape.
- Cover as much of the connector as possible
- Start at the antenna connector and work towards the cable
- Wrap the mastic tape tightly to the splicing tape
- Make sure the seam is completely sealed
- Once installed, the splicing and mastic taped connection will be waterproof.

Nautic Alert Beam Sensor Wiring



Normally-Open Zone Configuration- Sensors in Parallel



Triton with beam sensor using zone 4

Note: Zone 4 means Alarm 4 on the printed circuit board