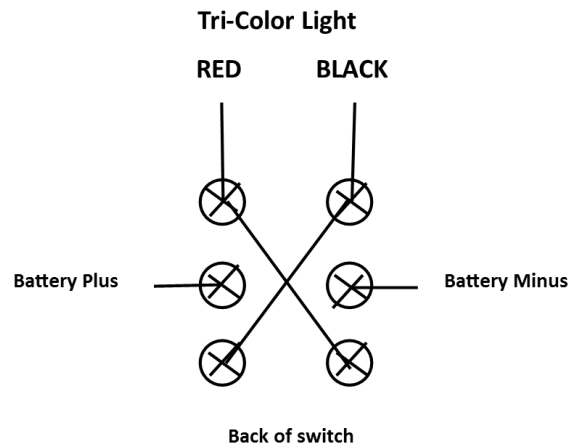


### Limited Warranty:

The 2NM Tri-Color/ Anchor LED Navigation Light is warranted for five years against any defects in material or workmanship. Any light that develops such defect within this period from date of purchase will be repaired or replaced at Signal Mate's option. The light should be returned to Signal Mate with an RMA (Return Merchandise Authorization) number, and the sales receipt. Also, please include a written statement of the failure, including when, and how it occurred. Warranty is void if the light is opened or otherwise tampered with. This warranty does not cover any shipping costs.

This limited warranty does not cover damage to this product due to misuse, accident or improper installation, nor does it cover any incidental or consequential expenses to the user resulting from malfunction, non-function or misuse of this product. It does not cover damage from lightning, or other natural disasters.

### 2-Wire Installation



Signal Mate, LLC  
113 N. Collington Ave Baltimore, Maryland 21231  
Phone 410-777-5550 Fax 410-675-4927  
info@signalmate.com  
www.signalmate.com



### Owner's Manual

### Combination 2NM Tri-color/ Anchor LED Navigation Light

Signal Mate Models:

TRIANC3 - TRIANC3P  
TRIANC2 - TRIANC2P



USCG 2 Nautical Mile Approval 33CFR 183.810  
Meets ABYC A-16 & 72 COLREGS  
Tested by IMANNA Laboratory Inc., July 29<sup>th</sup>, 2009

## Introduction:

The 2NM Tri-Color/ Anchor light is used for sail boats (**under sail only**) for vessels under 20 meters (65 feet) in length.

The light provides constant brightness over the full operating range of 10 to 30 volts. This insures the light will meet or exceed the visibility requirements as the battery voltage drops from use.

The Tri-color light must be turned off while being propelled by machinery. Do not use both the Tri-Color and deck running lights at the same time.

The Tri-Color light has a clear window on top of the light that allows the stern light to shine up-ward to illuminate the wind vane for night sailing.

## Wiring:

### 3-wire

Red wire = Tri-color Positive (+) DC voltage

White wire = Anchor Light (+) DC voltage

Black wire = Battery ground

Protect circuits with a 1 amp. fuses or circuit breakers to the red and white wires using two switches.

### 2-wire

You will need a Double Pole Double Throw (DPDT) reversing switch to reverse the wire polarities.

Red wire to positive (+) battery. Black wire to negative (-) battery. This illuminates the Tri-color light.

Red wire to negative (-) battery. Black wire to positive (+) battery. This illuminates the anchor light.

Protect circuit with a 1 amp. fuse or circuit breaker to reversing switch.

## Specifications:

**Visibility:** USCG 2 Nautical Mile Approval 33CFR 183.810

Meets ABYC A-16 & 72 COLREGS

**Vertical Viewing Angle:** +/- 36 degrees

**Application:** Sailboats under 20 meters (65')

**Voltage Range:** 10 to 30 VDC

**LED Driver:** Constant current

**LED:** 3 watt

**Current Draw:** 0.3 amps. at 12V

**Construction:** Hard anodized aluminum, polycarbonate lens.

**Wiring:** 2 1/2 feet UV outdoor 20 AWG wire

**Height:** 4.5 inches

**Weight:** 8.2 oz

**Diameter:** 1.5 inches

**Durability:** Waterproof

## Mounting Instructions:

The Tri-Color and Anchor light which must be mounted atop the mast without any obstructions in a 360 degree viewing angle. The two forward facing LEDs (port and starboard which are opposite the cable) must be mounted with the center line of the vessel.

Test the Tri-Color LEDs before mounting, by connecting the red wire to the positive (+) side of the battery (12 or 24 volts DC), and by connecting the black wire to the negative (-) side of the battery. The three LEDs will illuminate.

**\*Important \*** Anchor light with **photocell option (TRIANC3P)** for automatic operation will turn on at dusk and turn off at dawn, and will not allow the anchor light to come on in ambient light. Cover up the sensor (small hole on the light's label) to turn the light on for testing purposes.

Test the Anchor LEDs before mounting, by connecting the white wire to the positive (+) side of the battery (12 or 24 volts DC), and by connecting the black wire to the negative (-) side of the battery. The three LEDs will illuminate.

Installation Tips:

- Separate light as far as possible from antennas to prevent radio frequency noise.
- Secure feed wire to mast below the wire terminations.
- Separate extra coax cable from the light's wiring.
- Coil up and secure any extra coax cable.
- Unorganized wiring behind panel should be organized.

The three mounting options are: ¼ inch x 20 female threads on bottom of light, optional 360 degree bracket or optional pole mount adapter.

Accessories sold separately at [www.signalmate.com](http://www.signalmate.com).

- 360 degree bracket PN: BRKT360.
- ¾ inch pole mount adapter PN: PADPT75.
- 1 inch pole mount adapter PN: PADPT1.
- For 2-wire installation, a reversing switch is needed DPDT PN: SWITCH-REV.

## 3-Wire Installation

