

LXTA Rev D TriAnchor light

### Two-Wire Modes of Operation

The table below will aid in the understanding of the light operation using two wires, including use of the photocell option:

Shield wire	Black Wire	Red Wire	Day / Night	Operation	Operation w/photocell option
Unconnected	Off	Off	Night	Off	Off
Unconnected	Off	Off	Day	Off	Off
Unconnected	Ground	Power	Night	Tricolor on	Tricolor on
Unconnected	Ground	Power	Day	Tricolor on	Tricolor on
Unconnected	On	Ground	Night	Anchor on	Anchor on
Unconnected	On	Ground	Day	Anchor on	Off
Unconnected	Power	Power	Night	Off	Off
Unconnected	Power	Power	Day	Off	Off

### Current Draw and Fusing

The current draw of the TriAnchor light is a low 0.5 amps at 12 VDC. A circuit breaker or fuse of 2 Amps is recommended. Improper fuse protection could result in severe damage to the light, boat, or persons in the event of a catastrophic failure.

### Specifications – 12V Version

**Visibility:** 2 nautical miles

**Waterproof:** yes, complete submersible

**Power Consumption:** 6 Watts

**Voltage Range:** 8 V to 15 Volts DC

**Current Draw:** 0.5 amps at 12 V

**Wiring:** 3-conductor marine grade, 20-gauge (2-wire operation possible)

### Specifications – 24V Version

**Visibility:** 2 nautical miles

**Waterproof:** yes, complete submersible

**Power Consumption:** 8 Watts

**Voltage Range:** 14 V to 26 Volts DC

**Current Draw:** 0.34 amps at 24 V

**Wiring:** 3-conductor marine grade, 20-gauge (2-wire operation possible)

### Limited Warranty

This Argo Navis Series light is warranted for five years against defects in material and workmanship. Any OGM Argo Navis Series light that develops such defect within this period from date of purchase will be repaired or replaced at OGM's option. The light should be returned to OGM with shipping charges. Please include \$5 U.S. for handling. Also, please include a written statement of the failure including when and how it occurred.

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. Some states do not allow the exclusion damages so this limitation may not apply to you. This warranty gives you specific legal rights.

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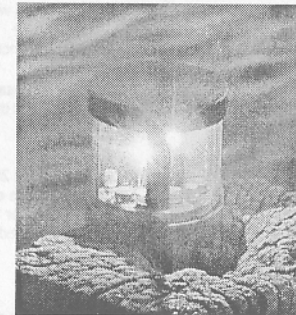


## Argo Navis LX Series LXTA LED TriAnchor™ Light

Models LXTA, LXTA-P, LXTA-S, LXTA-PS

12V and 24V

Owner's Manual



### USCG 2NM Approved

33 CFR 183.810 Meets ABYC-A16  
Tested by Imanna Laboratories 4/30/2004

OGM Corporation  
www.orcagreen.com  
5206 Beacon Drive  
Austin, Texas, 78734

(866) 535-5777  
(512) 266-8226

### Installation Instructions

#### General

The OGM LED LXTA TriColor/Anchor Light is designed for use on sailing vessels under 20 meters (65.6ft) in length. It provides constant brightness over its full operating voltage range. This insures the light will meet or exceed the visibility requirements as the battery voltage drops from use. To insure compliance with the '72 COLREGS and U.S. Inland Rules, the installation instructions provided must be followed.

#### Mounting

1. The TriAnchor light should be mounted at the top of the mast, level, with the center divider between the red and green facing directly forward
2. The three 6-32 stainless-steel inserts in the bottom of the housing should be used to secure the light. Mounting brackets are available from OGM for additional charge.
3. The light is completely waterproof so no extra precautions are necessary to protect the components within the light. The light is not designed to be opened. Doing so will void the warranty.

#### Wiring

The TriAnchor light comes standard with 4 feet of marine-grade 3-conductor 20-gauge wire. The light is capable of full operation with either two or three wires. Therefore, it can be spliced into existing two or three-conductor mast wiring. Mast wiring of 20-gauge is sufficient to supply power to the TriAnchor light. Two-wire operation cannot be used for lights with the strobe option, and two-wire mode is not recommended for masts that use a common ground wire or have a grounded mast.

#### Three-wire operation and wiring

Three-wire is the preferred operation of the light. A shielded mast cable with two inner conductors is recommended. The shield or ground wire of the mast cable should be connected to the shield of the TriAnchor cable. The black wire from the TriAnchor should connect to the power wire for the Anchor mode, and the red wire from the TriAnchor should connect to the power wire for the Tricolor mode, as shown Figure 1. A selector switch will allow the selection of tricolor or anchor mode, and strobe for models that have the strobe option. Strobe operation occurs when power is supplied to both the red and black wires. NOTE: For lights without the strobe option, the light will not function if power is applied to both the red and black wires simultaneously.

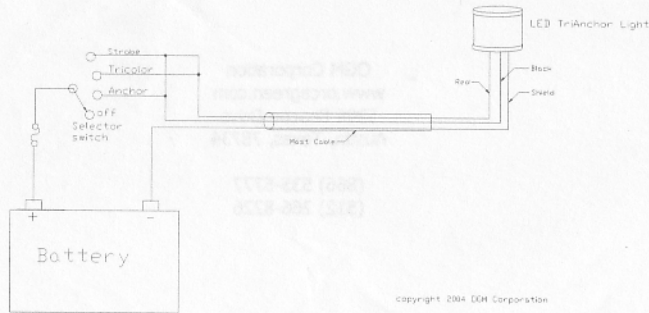


Figure 1



### Three-wire Modes of Operation

The table below will aid in the understanding of the light operation, and operation of the photocell and strobe options:

Shield wire	Black Wire	Red Wire	Day / Night	Function	Function w/ photocell option	Function w/ strobe option	Function w/ photocell & strobe
Ground (-)	Off	Off	Night	Off	Off	Off	Off
Ground (-)	Off	Off	Day	Off	Off	Off	Off
Ground (-)	Off	On	Night	Tricolor on	Tricolor on	Tricolor on	Tricolor on
Ground (-)	Off	On	Day	Tricolor on	Tricolor on	Tricolor on	Tricolor on
Ground (-)	On	Off	Night	Anchor on	Anchor on	Anchor on	Anchor on
Ground (-)	On	Off	Day	Anchor on	Off	Anchor on	Off
Ground (-)	On	On	Night	Off	Off	Strobe	Strobe
Ground (-)	On	On	Day	Off	Off	Strobe	Strobe

NOTE: the black or red wire should not be left unconnected. The selector switch from OGM will insure that this does not happen.

#### Two-Wire Operation and Wiring

Two-wire operation is possible and convenient for users who wish to replace their anchor light with a TriAnchor light without rewiring the mast. This is possible only if the ground wire for the existing cable is not connected to any other devices or to the mast itself, and the strobe option is not used. Tricolor and Anchor modes are selected by reversing the polarity red and black wires from the TriAnchor. A simple reversing switch, such as the one sold by OGM, can be used to reverse the polarity. The shield wire should not be used from the TriAnchor, and should be protected from touching anything, including the mast. Follow the wiring diagram in Figure 2 for the proper connections.

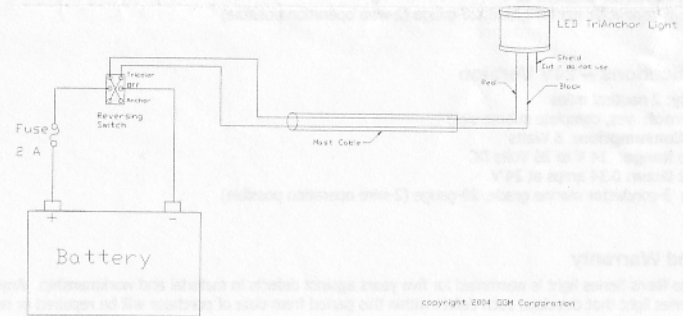


Figure 2

