

Specifications

Visibility: 2 nautical miles

Waterproof: yes, complete submersible

Power Consumption: 6 Watts

Voltage Range: 10 V to 28 Volts DC

Current Draw: 0.33 amps at 12 V

Wiring: 3-conductor waterproof plug with supplied mating connector and cable

Model Number	Description
LXTA-P	Tricolor / Anchor combination LED light with daylight sensor using photodiode
LXTA-S	Tricolor / Anchor combination LED light with strobe option (strobe anchor LEDs)
LXTA-SP	Tricolor / Anchor combination LED light with daylight sensor and strobe

Limited Warranty

This OGM TriAnchor light is warranted for three 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 OGM's option. The light should be returned to OGM 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.

Call 443-699-6348

sales@OrcaGreenMarine.com

Orca Green Marine, LLC (OGM)
www.OrcaGreenMarine.com
7040 Bembe Beach Road, Ste 1
Annapolis, Maryland 21403
443-699-6348 Fax 410-268-7410

Orca Green Marine LXTA LED TriAnchor™ Light

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

Owner's
Manual



USCG 2NM Approved

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

Swedish Approved

Certifikat SP LT 523
Tested by SP Swedish National Testing and
Research Institute

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

Black wire	Brown Wire	Blue Wire	Day / Night	Function w/photodiode option	Function w/ strobe option	Function w/ photodiode & strobe
Ground (-)	Off	Off	Night	Off	Off	Off
Ground (-)	Off	Off	Day	Off	Off	Off
Ground (-)	Off	On	Night	Tricolor on	Tricolor on	Tricolor on
Ground (-)	Off	On	Day	Tricolor on	Tricolor on	Tricolor on
Ground (-)	On	Off	Night	Anchor on	Anchor on	Anchor on
Ground (-)	On	Off	Day	Off	Anchor on	Off
Ground (-)	On	On	Night	Off	Strobe	Strobe
Ground (-)	On	On	Day	Off	Strobe	Strobe

The selector switch available from OGM provides a convenient control panel switch for operating the light in both two-wire and three wire modes.

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 of the brown and blue wires from the TriAnchor. A simple reversing switch, such as the one sold by OGM, can be used to reverse the polarity. The black wire should not be used from the yellow cable, and should be protected from touching anything, including the mast

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

Black Wire	Brown Wire	Blue Wire	Day / Night	Operation	Operation w/photodiode 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	Power	Ground	Night	Anchor on	Anchor on
Unconnected	Power	Ground	Day	Anchor on	Off

Current Draw and Fusing

The current draw of the TriAnchor light is a low 0.33 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.

Installation Instructions

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 of 10 to 28V. This ensures the light will meet or exceed the visibility requirements as the battery voltage drops from use. To ensure 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 is equipped with a 3-conductor waterproof plug. The mating connector and cable is included. 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, although 16 gauge is recommended. Two-wire operation cannot be used for lights with the strobe option.

Three-wire operation and wiring

There are three wires in the supplied mating yellow cable. The proper connection for these wires is shown in the table below:

Wire Color from yellow cable	Connection / Function
Black	Electrical ground / negative battery terminal
Brown	Power for anchor light
Blue	Power for tricolor light

If power is applied to both the brown and blue wires at the same time, the strobe will activate, if the light has the strobe option. If the strobe option is not present, the light will turn off.

If the anchor light has a photo option, the light will blink twice and then go off in ambient light. This is normal operation.