

Limited Warranty:

The 5NM Masthead (Steaming) 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.

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Owner's Manual

5NM Masthead (Steaming) LED Navigation Light

Signal Mate Model:

5NMMH225



USCG 5 Nautical Mile Approval 33CFR 183.810
Meets ABYC A-16 & 72 COLREGS
Tested by IMANNA Laboratory Inc., October 22nd, 2010

Introduction:

The 5NM Masthead (Steaming) light uses eight white LEDs to obtain 225 degrees. The light is used for both power and sailboats over 20 meters (65 feet), but less than 50 meters (165 feet) while being propelled by machinery.

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.

Wiring:

Protect circuit with a 2 amp. fuse or circuit breaker to the red wire.

Red wire = battery positive (+) = masthead (225 degrees) light.

Black wire = battery negative (-).

Specifications:

Visibility: USCG 5 Nautical Mile Approval 33CFR 183.810

Meets ABYC A-16 & 72 COLREGS

Voltage Range: 10-30VDC

LED Driver: Constant Current

LED: Seoul Semiconductor P4

Masthead (Steaming) Current Draw: 0.700 amps at 12VDC

Construction: Hard anodized aluminum, polycarbonate lens.

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

Weight: 12.4 oz.

Height: 6.25 inches

Diameter: 1.5 inches

Mounting: Black hard anodized aluminum bracket (included)

Durability: Waterproof

Mounting Instructions:

For sailboats, the light should be mounted approx. 3/4 way up a mast. The eight forward facing LEDs must be mounted with the center line of the vessel.

For power boats, the light should be mounted on top of the cabin house. The eight forward facing LEDs must be mounted with the center line of the vessel.

Test the 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 eight LEDs for the masthead light (225 degrees) will illuminate.

Installing Bracket:

Remove the light by removing the top and bottom screws and washers.

Important: Gently slid light straight out! The keyway will only allow the light to be slide straight out.

Mount bracket on centerline and secure with two # 10 stainless screws using Lanocote or another marine corrosion inhibitor. Also, apply marine corrosion inhibitor between the bracket and the mast.

Cables can exit straight back or straight down from the bracket for wire termination.

Feed cable of the 5 NM light through the bracket wire exit hole, terminate power and ground wires. **Note:** Keep light wrapped in protective cover to avoid damage while wiring.

Install the 5 NM light on the bracket by applying a small amount of gray heat sink compound (supplied) to the top and bottom surfaces of the light. Lightly apply gray heat compound to inside mating flat surface of the bracket.

Bend the cable 90 degrees straight back and upward to allow keying nut to enter keying slot on the light.

Continue to feed the cable through the cable exit hole and slowly slide light back to allow the cable to be positioned on top the key nut.

Align top and bottom 1/4"x-20 holes on the light.

Apply a small amount of Lanocote or corrosion inhibitor in the female threads.

Install the two 1/4"x20 panhead screws by positioning the lock washer next to the screw, and then the nylon flat washer to protect the hard coat surface of the bracket.

Tighten screws, and wipe off excess heat sink compound.