



shadow-caster SCM-Series Thermostat Instruction Manual

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shadow-caster SCM-Series Thermostat

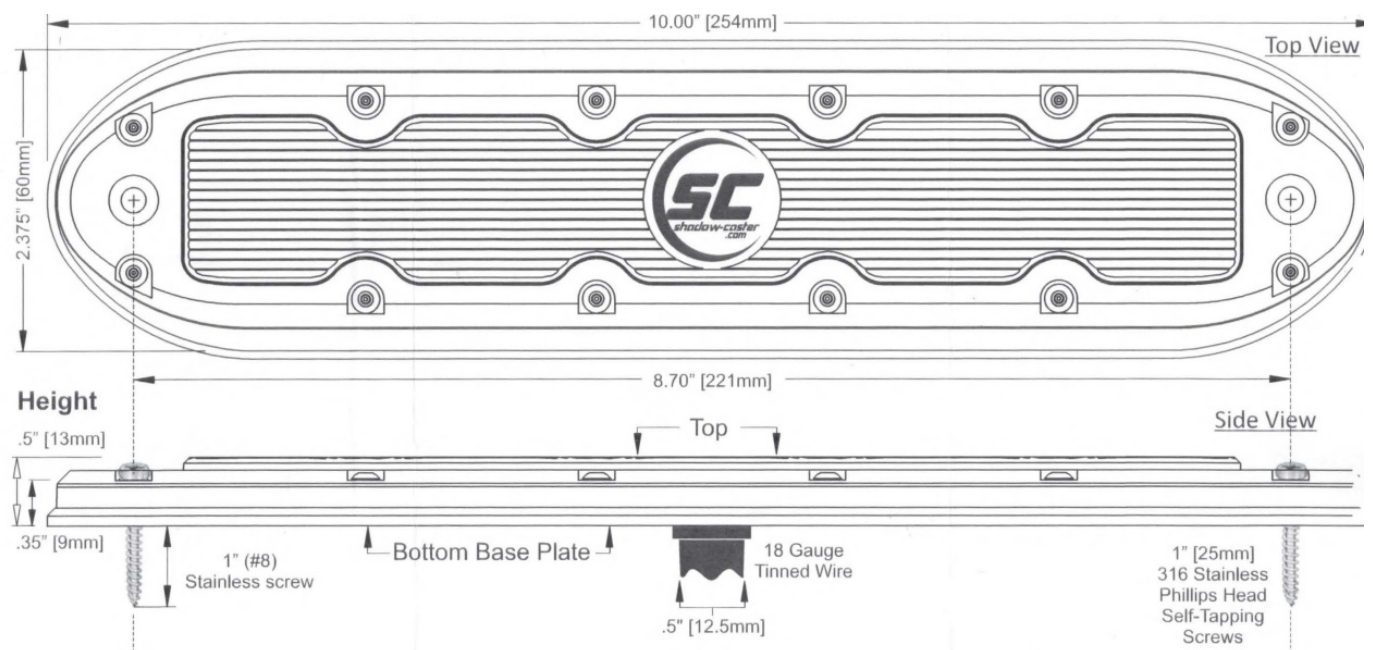


What you will need

- Scissors
- Low Stick Masking Tape
- Power drill (18v cordless preferred)
- Use an appropriately sized drill bit to pre-drill mounting screw holes for #8 screws (screws included)
- 5/8" Diameter drill
- Alcohol (Do not use acetone on polycarbonate lens)
- Clean cloth or paper towel
- Sealant, 3M 4200 is recommended

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Installation Diagram



INSTALLATION

Shadow-Caster® Marine LEDs utilize state-of-the-art high-powered LED technology combined with a rugged military-grade design to bring you the best value in underwater lighting. Our lights are manufactured in the U.S.A. and are inspected to meet the highest standards of quality. The following steps are recommended to properly install your SCM-Series™ underwater lights. Avoiding doing so may void your warranty.

1. Choose mounting location – The lights require water cooling and should be installed on a flat surface area that is frequently submerged, splashed, or sprayed. Also consider the area inside the boat where the wire will enter and make sure it will be accessible to retrieve the wire. It IS recommended to mount the light as low as possible for optimal water penetration and cooling. It IS NOT recommended to mount the lights on the bottom of the hull because it will create drag and increase the risk of damage when beaching the vessel and from floating debris.
2. The provided template can be used for finding an appropriate mounting location. Verify that the template matches the mounting holes on the light if using this as a drill template. Make sure you are drilling into a place where you

can get to the hole

from inside the boat in order to feed wire. Mark center drill location with pencil. Remove template and store in a safe place.

3. Drill a 5/8" diameter hole for the cable in the center hole location only (Shown on template).
4. If mounting to an aluminum hull use a foam or rubber spacer for galvanic isolation to prevent corrosion (For more information, visit us at www.shadow-caster.com).
5. Feed the cable through the hull into the boat.
6. With the light against the hull in the location to be mounted, use the actual mounting holes of the light to mark one mounting hole. Drill that hole with an appropriately sized drill (9/64 is typical for #8 screws). Be sure the drill is not over sized or undersized. An undersized hole can cause the screw to break, over size the hole and the hole will strip. With the light in place thread a screw into the hole. Now mark and drill the last mounting hole.
7. This procedure will prevent damage to the rubber boot where the cable comes out of the light. Gross misalignment of the mounting screw holes can cause excessive side loads on the boot. Now check the mounting hole alignment with the light against the hull in the mounting location. If the mounting holes are not both easily visible through the holes in the light, then the center hole for the cable must be reamed until the light can be aligned with the mounting holes.
8. Place a sufficient amount of silicone or 3M® 4200 marine sealant on the hull around all three holes to seal them against the light's base plate.
9. Fill the screw holes with sealant.
10. Use provided screws (Qty 2) to mount light to the hull. If alternate screws are used they must be passivated 316 stainless steel (generally military spec screws are passivated). Do not use bronze screws as this will cause galvanic corrosion.
11. install wiring:
 - **a.** Route wire through the boat in a manor such that it is tied up out of standing water and protected from excessive heat or abrasion.
 - **b.** Route wire to a switch rated at a minimum of twice the continues current draw (i.e. for two SCM-10™ lights: $3.5 \text{ amps} \times 2 \text{ lights} \times 2 = 14$) [amp switch and circuit breaker minimum rating]. Switch not provided.
 - **c.** Red wire is positive, black wire is ground. Reversing the polarity will void your warranty. The lights must be wired through a fuse or circuit breaker. FAILURE TO DO SO COULD CAUSE A FIRE AND INJURY OR DEATH. Each light should be fused separately and will require 4 amps at 12 volts, with a 7 .5 amp fuse to handle in-rush current.
 - **d.** Blue wire is the PWM (Pulse Width Modulation) control wire. This is to control strobing and dimming functions integrated into the light. Contact Shadow-Caster® Marine LED Lighting to purchase a compatible controller or dimming.

ATTENTION

Follow these steps to maintain maximum light intensity

1. Clean your Shadow-Caster Marine LED lights frequently with a soft bristle brush. We recommend that installed Shadow-Caster· Marine LED lights be cleaned every two (no more than four) weeks for "live in water" boats and rinsed every time the boat is pulled out of the water to prevent marine growth buildup and biofouling.
2. Shadow-Caster Marine LED lights are constructed with the highest quality stainless steel. However, minimal staining can occur. If staining does occur, apply naval jelly per manufacturers instructions. For additional

maintenance tips, refer to our website (www.shadow-caster.com).

Limited Warranty

Shadow-Caster® LED Lighting, LLC warrants the hardware products it manufactures and produces to be free from defects in materials and workmanship for two years following the date of shipment from Shadow-Caster® LED Lighting. This warranty is limited to the original purchaser of product and is not transferable and shall not exceed the purchase price paid for the product.

During the two year warranty period, Shadow-Caster® LED Lighting will repair or replace, at its option, any defective products or parts at no additional charge, provided that the product is returned, shipping prepaid, to Shadow-Caster® LED Lighting. For this return to be considered valid, the product must have been registered within 30 days of the purchase of the product. All replaced parts and products become the property of Shadow-Caster® LED Lighting. Before returning any product for repair, customers are required to contact Shadow-Caster at (727) 474- 2877 for a RMA (Return Merchandise Authorization) number.

THIS LIMITED WARRANTY DOES NOT EXTEND TO ANY PRODUCTS WHICH HAVE BEEN DAMAGED AS A RESULT OF ACCIDENT, MISUSE, ABUSE (such as: use of incorrect input voltages, improper or insufficient ventilation, improper installation, failure to follow the operating instructions that are provided by Shadow-Caster® LED Lighting, "acts of God," or other contingencies beyond the control of Shadow-Caster® LED Lighting), OR AS A RESULT OF SERVICE OR MODIFICATION BY ANYONE OTHER THAN Shadow-Caster® LED Lighting. EXCEPT AS EXPRESSLY SET FORTH ABOVE, NO OTHER WARRANTIES ARE EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND Shadow-Caster® LED Lighting EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED HEREIN. ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES FOR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS WARRANTY. IN THE EVENT THE PRODUCT IS NOT FREE FROM DEFECTS AS WARRANTED ABOVE, THE PURCHASER'S SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT AS PROVIDED ABOVE. UNDER NO CIRCUMSTANCES WILL Shadow-Caster® LED Lighting BE LIABLE TO THE PURCHASER OR ANY USER FOR ANY DAMAGES, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, EXPENSES, LOST PROFITS LOST SAVINGS, OR OTHER DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PRODUCT. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS, AND SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

HOW TO REGISTER YOUR SHADOW-CASTER PRODUCT(\$\$) WARRANTY:

1. Find the product(s) serial number(s) located on the registration directions sheet in the product's packaging.
This number is also on the product. If you cannot find this serial number, please contact Shadow-Caster at (727) 474-2877.
2. Visit our website at www.shadow-caster.com
3. On the top menu bar of the home page, you will see a "contact us" drop down tab. Hover over this tab and click on the "product registration" tab.
4. Fill out the required fields on the page.
5. When you are done filling out the required fields, click the "register product" button at the bottom of the page.
This will validate your registration.
6. If you have any questions or issues while registering, please contact customer support at (727) 474-2877.

IMPORTANT NOTE: You MUST register your product online within 30 days of purchase for warranty to be valid. Failure to do so will result in the product(s) warranty being voided.

Visit us online at www.shadow-caster.com for product news and updates

IMPORTANT

TO VALIDATE YOUR PRODUCT'S WARRANTY, YOU MUST REGISTER YOUR PRODUCT(S) ON OUR WEBSITE

How To Register Your Shadow-Caster Product(s) Warranty:

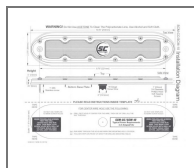
1. Find your product(s) serial number(s), located at the bottom of this sheet. You can also find this number on the product and the product's packaging. If you cannot find this serial number, please contact Shadow-Caster at (727) 474-2877
2. Visit our website at www.shadow-caster.com
3. On the top menu bar of the home page, you will see a "contact us" drop down tab. Hover over this tab and click on the "product registration" tab
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Shadow-Caster Limited Warranty

Shadow-Caster LED Lighting, LLC
2060 Calumet Street Clearwater, FL 33765
Tel (727) 474-2877 / Fax (727) 342-7304
Email: Info@shadow-caster.com

Documents / Resources



[shadow-caster SCM-Series Thermostat](#) [pdf] Instruction Manual
SCM-Series Thermostat, SCM-Series, Thermostat

References

-  [Caster | Trending](#)