



AUTOMATIC ANCHOR LIGHT SWITCH

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West Marine Model # 542100

SUMMARY

The Automatic Anchor Light Switch is an electronic daylight sensor which allows automatic control of your anchor light by turning it on at dusk and off at dawn. Your existing anchor light switch still forces the light off in it's "off" position and allows the automatic operation in the "on" position.

Now you can leave your anchored yacht for a day of exploration and return in the evening without running down your battery unnecessarily. Especially on moonless nights, you will have the security of knowing your boat will be legal, safe, and easy to find. You can sleep in the next morning knowing that your battery is not suffering.

By using state of the art fiber optic cable the control can be mounted out of the weather behind your electrical panel and the cable routed to any location where daylight is available. The unit is very sensitive and can operate on light coming in a vent or porthole. Even the light coming through the nylon material of a cockpit drain is adequate. If no daylight is within 5 feet of the panel a 3/32" hole can be drilled through the cockpit or cabin sides and the end of the cable epoxied in place. The surface can then be sanded flush making the sensor inconspicuous.

INSTALLATION

The switch is designed to be installed behind the switch or breaker panel which currently controls your anchor light.

1. Remove the wire which goes to your anchor light from the existing switch and attach it to the "LAMP" terminal on the anchor light

control which is the one closest to the end.

2. Add a new wire from the "+" terminal (center one) to where the lamp wire was originally attached to the switch on your panel.
3. Add a new wire from the third terminal, "GROUND" to a negative boat ground terminal. A small gauge wire, even 22 gauge is adequate.
4. Route the fiber optic cable to a location where the end is exposed to outside daylight. It does not have to be in sunlight and enough light comes through most port holes to operate the switch. It should be located where the end of the cable is not illuminated by lights on the boat. Even the light coming through thin fiberglass or a nylon fitting will operate the switch. Position the cable temporarily and observe operation before securing. If necessary, drill a 3/32" hole through an inconspicuous location on the salon or cockpit sides and epoxy the cable so the end is flush with the surface. Take care not to make bends in the cable of less than 1/2". You can shorten the cable with a sharp knife. The cable can be removed from the switch by loosening the knurled nut inside and sliding it out. Longer replacement cables up to 25 feet are available at \$1.25 per foot. Mail the old cable back for a rebate

if you like.

5. Secure the switch with cable ties or tape or open the box and drill and screw through the box.

OPERATION

The original panel switch turns everything off in the "OFF" position. The "ON" position is now an "AUTOMATIC" setting. The anchor light will only come on when it gets dark and go off automatically at daybreak. You can test operation during daylight by covering the end of the fiber optic cable and watching the anchor light come on. The switch is very sensitive and can see the light coming through your hand on a bright day so block the light with an opaque object if necessary.

An internal fuse link protects the switch from overload. If blown it can be repaired with 30 gauge wire or a single strand from a flexible cord, soldered into the two holes provided.

SPECIAL NOTE REGARDING TESTING

The switch will only work correctly with the cover installed to block stray light, and there must be an electrical load on the output.

WARRANTY 1 YEAR.

SPECIFICATIONS

Voltage:	10 to 16 volts
Power Consumption:	
Anchor light off:	too low to measure
Anchor light on:	.03 amp
Maximum Load:	120 watts or 10 amps
Fiber Optic Cable	088" dia. by 5 feet
Minimum bend radius	1/2 inch