

SEAFLO SFBS-20-06

SEAFLO 20A Solid State Electric Field Bilge Pump Switch

Model: SFBS-20-06

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your SEAFLO 20A Solid State Electric Field Bilge Pump Switch. Designed for marine environments, this intelligent water level sensor offers reliable and efficient bilge water management without moving parts, ensuring long-term durability.

SPECIFICATIONS

Feature	Detail
Model Number	SFBS-20-06
Voltage	12V / 24V DC
Current	20A at 12V, 10A at 24V
Wire Gauge Size	16AWG
Wire Lead Length	1000mm (39.4")
Activation Level	41mm (1.6")
Deactivation Level	9.5mm (0.37")
Operation Mode	Automatic
Contact Type	Normally Open
Mounting Type	Surface Mount

Product Dimensions	3.62 x 0.86 x 2.48 inches
Item Weight	3.2 ounces

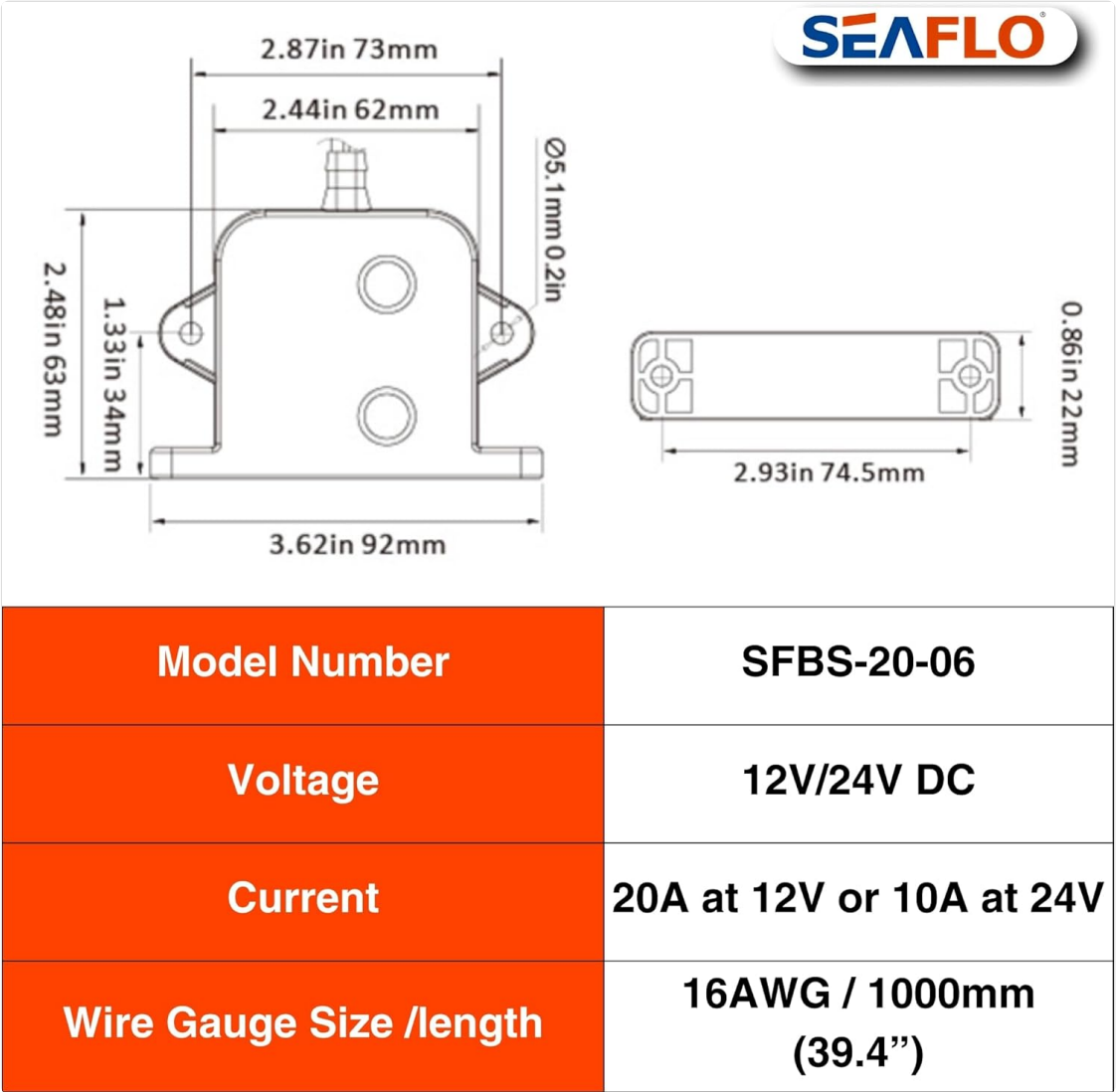
*Note: Specifications are subject to change without notice.*

## SETUP AND INSTALLATION

The SEAFLO Electric Field Bilge Pump Switch is designed for user-friendly installation. Ensure all power is disconnected before beginning installation.

### Mounting the Switch

The switch can be mounted using its base or the integrated mounting ears. Position the switch in the lowest part of the bilge where water collects, ensuring the sensor pads are clear of obstructions.

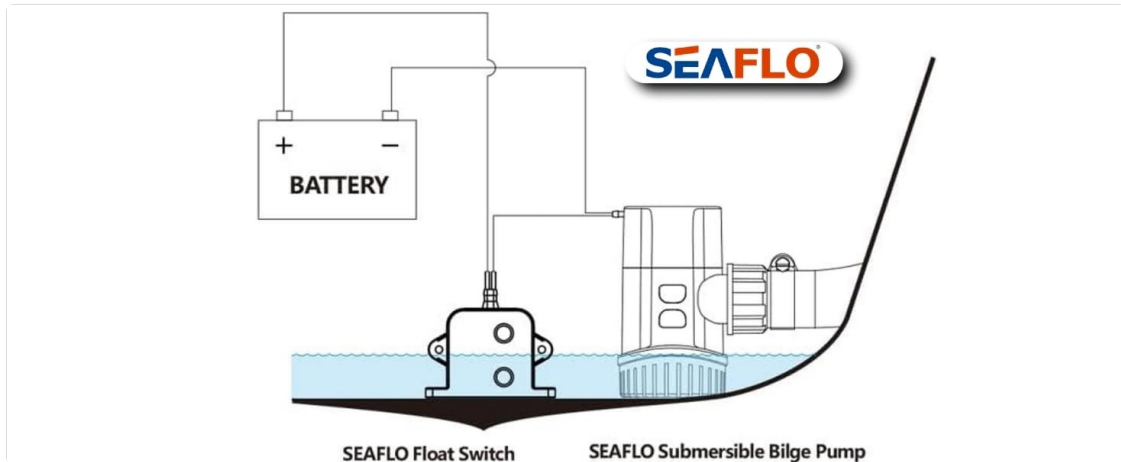


**Image:** Illustration of mounting options for the SEAFLO bilge pump switch, showing attachment via the base or side mounting ears.

### Wiring Diagram

Connect the switch according to the following diagram. The switch requires a 12V or 24V DC power source. Ensure all connections are secure and properly insulated to prevent corrosion and short circuits.

- Connect the positive (+) wire from the battery to the switch.
- Connect the other wire from the switch to the positive (+) terminal of your bilge pump.
- Connect the negative (-) wire from the bilge pump directly to the negative (-) terminal of the battery.



**Image:** A clear wiring diagram illustrating how to connect the SEAFLO float switch to a battery and a submersible bilge pump.

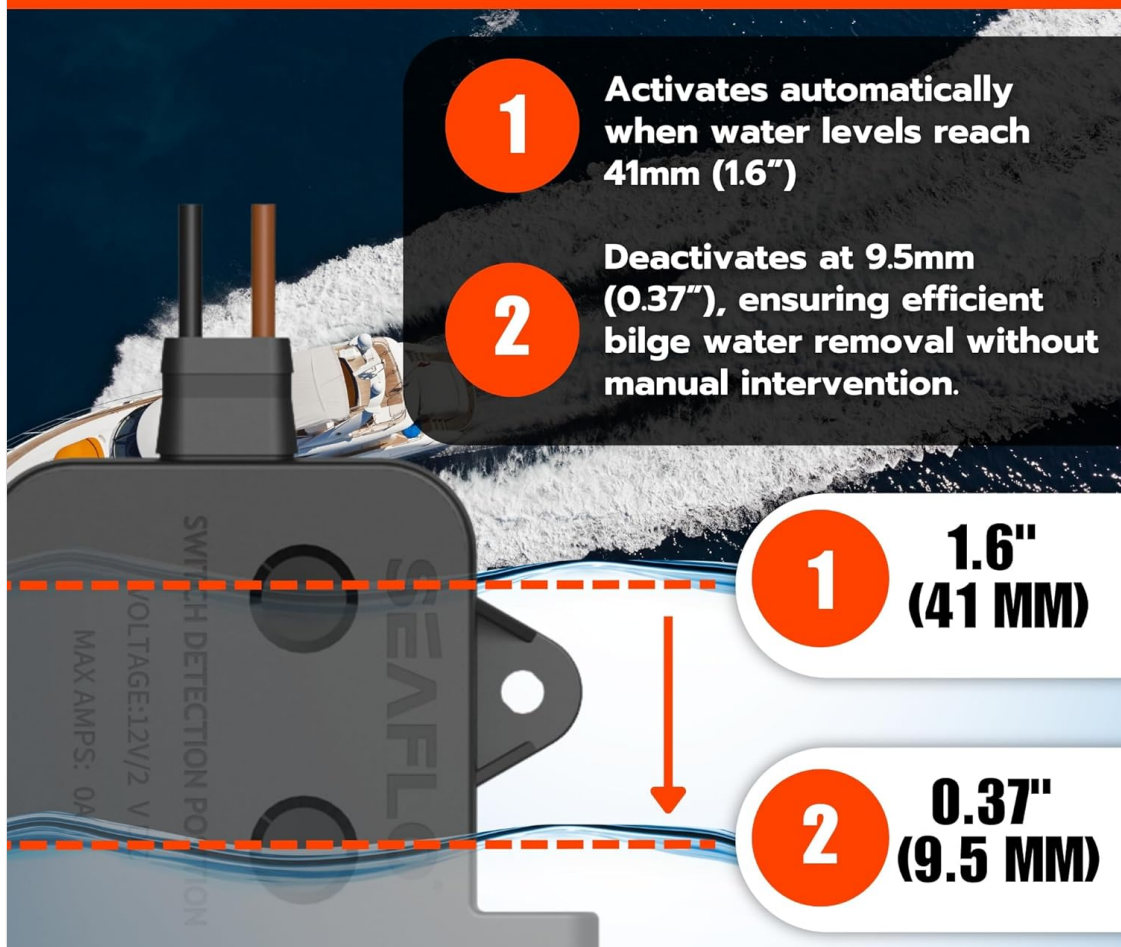
## OPERATING INSTRUCTIONS

The SEAFLO Solid State Electric Field Bilge Pump Switch operates automatically based on water levels detected by its integrated sensors. It features intelligent water level detection and false start prevention.

### Automatic Operation

- The pump activates automatically when the water level reaches 41mm (1.6 inches) at the higher sensor.
- The pump deactivates when the water level drops to 9.5mm (0.37 inches) at the lower sensor.
- A built-in three-second delay prevents unnecessary activation caused by water sloshing in the bilge, ensuring precise operation.

# INTELLIGENT WATER LEVEL DETECTION

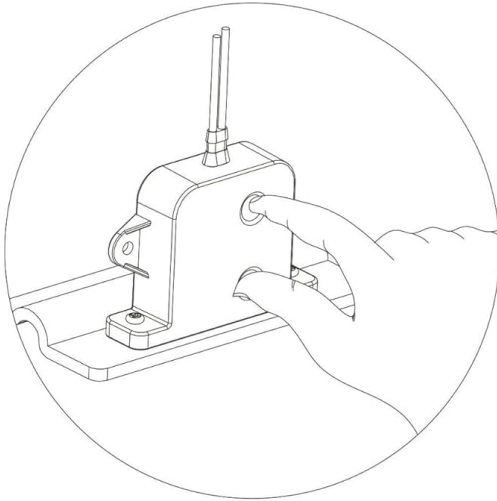


**Image:** Visual representation of the intelligent water level detection, indicating the activation point at 1.6 inches (41mm) and deactivation point at 0.37 inches (9.5mm).

## Testing the Switch

To test the functionality of the switch after installation or periodically:

1. After installation, hold your fingers for 10 seconds on the two raised circles (sensor pads) on the switch face.
2. If wiring is correct, the pump will activate.
3. Remove your top finger; the pump should stay on.
4. Remove your bottom finger; the pump should turn off after a short delay.
5. Alternatively, test with water in the bilge to confirm that the pump turns on and off properly. If not, reposition the switch to allow for proper activation and deactivation levels.



## Testing Switch

1. After installation, hold fingers for 10 seconds on two raised circles on switch face.
  - If wiring is correct, pump activates.
  - Remove top finger, pump stays on.
  - Remove bottom finger, pump should turn off after a short delay.
2. Test with water in bilge to confirm that pump turns on and off properly. If not, reposition the switch to allow for activation.

**Image:** A diagram demonstrating how to manually test the switch by touching the sensor pads, which simulates water presence.

## Product Demonstration Video

Your browser does not support the video tag.

**Video:** This video demonstrates the unboxing and testing of the SEAFLO Electric Field Bilge Switch, showing how it activates and deactivates the bilge pump based on water levels and manual testing.

## MAINTENANCE

The SEAFLO Solid State Electric Field Bilge Pump Switch is designed for minimal maintenance due to its robust construction and lack of moving parts.

- **Regular Inspection:** Periodically inspect the switch and its wiring for any signs of damage, corrosion, or debris accumulation.
- **Cleaning:** If debris or residue accumulates on the sensor pads, gently wipe them clean with a damp cloth. Ensure the pads are free from oil, grease, or silicone, as these can affect sensor performance.
- **Corrosion Resistance:** The fully sealed electronics and absence of exposed sensors make the switch highly resistant to corrosion in both saltwater and freshwater environments.

## TROUBLESHOOTING

If you encounter issues with your SEAFLO Bilge Pump Switch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Pump does not activate when water level is high.	<ul style="list-style-type: none"><li>• No power to the switch/pump.</li><li>• Incorrect wiring.</li><li>• Sensor pads are dirty or obstructed.</li><li>• Switch is faulty.</li></ul>	<ul style="list-style-type: none"><li>• Check battery connections and fuses.</li><li>• Verify wiring against the diagram in the Setup section.</li><li>• Clean sensor pads thoroughly.</li><li>• Test the switch manually (see Operating Instructions). If still unresponsive, consider replacement.</li></ul>
Pump does not turn off when water level is low.	<ul style="list-style-type: none"><li>• Sensor pads are dirty or wet.</li><li>• Switch is positioned too low, preventing full deactivation.</li><li>• Switch is faulty.</li></ul>	<ul style="list-style-type: none"><li>• Clean sensor pads thoroughly and ensure they dry completely.</li><li>• Reposition the switch slightly higher so the lower sensor pad is above the lowest water level the pump can remove.</li><li>• Test the switch manually. If still unresponsive, consider replacement.</li></ul>
Pump activates too frequently (false starts).	<ul style="list-style-type: none"><li>• Excessive water sloshing.</li><li>• Switch sensitivity issue.</li></ul>	<ul style="list-style-type: none"><li>• Ensure the switch is mounted securely and not subject to excessive movement. The built-in 3-second delay should mitigate most sloshing.</li><li>• Verify the switch is correctly installed and not in an area with constant minor water disturbances.</li></ul>

## WARRANTY AND SUPPORT

SEAFLO stands behind the quality of its products. The SEAFLO 20A Solid State Electric Field Bilge Pump Switch is backed by a **4-Year Warranty**, ensuring reliable performance and peace of mind.

### Warranty Claims

For warranty claims or technical support, please contact SEAFLO customer service directly. Keep your proof of purchase for all warranty inquiries.







### Additional Protection Plans

Extended protection plans may be available for purchase to further safeguard your investment:

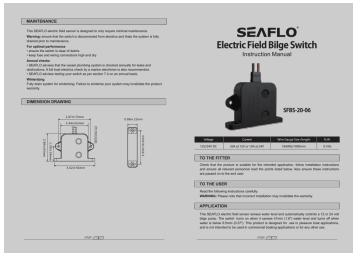
- 3-Year Protection Plan
- 4-Year Protection Plan
- Complete Protect: One plan covers all eligible past and future purchases (monthly billing)

For details on these plans, please refer to the product listing or contact your retailer.

## Related Documents - SFBS-20-06

	<p><a href="#">SEAFLO Electric Field Bilge Switch Instruction Manual</a></p> <p>Instruction manual for the SEAFLO Electric Field Bilge Switch (SFBS-20-06), detailing maintenance, installation, wiring, testing, and application for 12/24V DC bilge pumps in pleasure boats.</p>
	<p><a href="#">SEAFLO 02 Float Switch Instruction Manual - Installation and Operation Guide</a></p> <p>Comprehensive instruction manual for the SEAFLO 02 Float Switch (Model SFBS-18-02). Covers installation, wiring, testing, and operating principles for marine bilge pump systems. Includes safety precautions and specifications.</p>
	<p><a href="#">SEAFLO Automatic Bilge Pump Manual - 06 Series</a></p> <p>This manual provides operation, installation, and maintenance instructions for the SEAFLO Automatic Bilge Pump 06 Series. It covers wiring, mounting, and care to ensure optimal performance and longevity.</p>
	<p><a href="#">SEAFLO Automatic Bilge Pump 06 Series Manual</a></p> <p>This manual provides operating instructions, safety warnings, specifications, and mounting instructions for the SEAFLO Automatic Bilge Pump 06 Series.</p>
	<p><a href="#">SEAFLO Alarm Control System Instruction Manual - SFWAS1-20-03, SFWAS2-10-03</a></p> <p>Comprehensive instruction manual for the SEAFLO Alarm Control System, detailing standard configurations, installation steps, and testing procedures for models SFWAS1-20-03 and SFWAS2-10-03.</p>
	<p><a href="#">SEAFLO Y-valve Instruction Manual SFYV-01</a></p> <p>Instruction manual for the SEAFLO SFYV-01 Y-valve, detailing its features, applications in marine waste management and bilge pumping systems, installation procedures, and service guidelines. Includes diagrams, an exploded view, and dimensional drawings.</p>





[\[pdf\]](#) User Manual Instructions Warranty Diagram

cdr Administrator Electric Field Bilge Switch 5 hours ago — Follow the wiring diagram Fig 3 All fuses and circuit breaker must be properly rated for bilge pump within see instruction manual moory se ||| MAINTENANCE This SEAFLO electric field sensor is designed to only require minimal maintenance. Warni ... mm 0.2in 1.33in 34mm 2.48in 63mm 3.62in 92mm page 4 ElectricFieldBilgeSwitch Instruction Manual **SFBS-20-06** Voltage 12V/24V DC Current 20A at 12V or 10A at 24V Wire Gauge Size /length 18AWG/1000... lang:en **score:36** filesize: 734.52 K page\_count: 2 document date: 2024-05-07



[\[pdf\]](#) SEAFLO Marine & RV Equipment Catalog: Pumps, Toilets, and Accessories

Explore the comprehensive SEAFLO catalog featuring high-quality pumps, toilets, and accessories for Marine and RV applications. Discover reliable solutions for your water systems and sanitation needs from FUJIAN AIDI ELECTRIC CO.,LTD. lang:en **score:15** filesize: 40.07 M page\_count: 77 document date: 2023-09-25



[\[pdf\]](#) Catalog

MARINE RV 1 2309251A304O5 seaflomariner soft 20230925 ||| SEAFLO PRODUCT CATALOGUE 2023 Bilge Pumps Float Switches Fresh Water Pumps Washdown Pump Kits T ... 0.86in 22mm BATTERY Using Mounting Ears Testing Switch 2.93in 74.5mm 3.62in 92mm Model Number **SFBS-20-06** Voltage 12V/24V DC SEAFLO Float Switch SEAFLO Submersible Bilge Pump Current 20A at 1... lang:en **score:12** filesize: 40.07 M page\_count: 77 document date: 2023-09-25