



# PENTAIR SHURflo Automatic Float Switch Instruction Manual

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**SHURflo Automatic Float Switch**



## Product Information

- **Voltage:** 12/24 VDC
- **Switch Type:** Mechanical
- **Material:** ABS
- **Leads:** 3 ft. Tinned wire
- **Operation:** Activate at 1-3/4, Turns-Off at 3/4
- **Approvals:** Ignition protection 8846, CE

The SHURflo Series float switches are reliable switches for your boat. They come in a complete line that includes a solid-state control, mechanical, standard float switch, and protected cage switch. The installation location for the pump should be at the deepest position in the bilge, away from high heat sources like engines, etc. The switch will activate the bilge pump when the water level reaches 1-3/4 (44mm) and will turn off the bilge pump when water level falls to 3/4 (19mm).

## Product Usage Instructions

1. Locate the pump at the deepest position in the bilge and mount it to the hull or pad with stainless steel screws.
2. Use 16 AWG wire for wire leads. For installation over 20 feet, use 14 AWG wire. Wire is tinned to prevent corrosion.
3. To reduce water wicking corrosion through wires, make all connections with waterproof connectors above all splashing bilge water.
4. Keep all wire connections above the highest water level and seal the wires with a waterproof marine sealant to prevent corrosion.
5. Install the Bilge switch cage for optimal performance.
6. Always test pump and switch before operation.
7. Do not pump oil, diesel fuel, gasoline or other flammable liquids overboard. This switch does not prevent the

discharge of oil or chemicals into the water. Please take appropriate measures to prevent discharging oil and chemicals.

If replacing the SHURflo Piranha Bilge switch (359-101-00 or 359-111-00) with SHURflo Bilge switch (359-101-30 or 40), use the following procedure for installation. Please contact SHURflo customer service for any questions.

Please refer to [www.shurflo.com](http://www.shurflo.com) for multi-lingual product installation and operating instructions. For any concerns or warranty inquiries, contact SHURflo customer service.

## FEATURES

- Non mercury mechanical switch
- 3 ft. Tinned wire
- Easy Snap into baseplate design (For 380, 500, 700 and 1000 GPH pumps)
- Manual test feature
- Optional cage available
- 12A Max at 12V, 6A Max at 24V

## SPECIFICATIONS

- **Voltage:** 12/24 VDC
- **Switch Type:** Mechanical
- **Material:** ABS
- **Leads:** 3 ft. Tinned wire
- **Operation:** Activate at 1-3/4", Turns-Off at 3/4"
- **Operating Temp:** 33°F to 180°F
- **Approvals:** Ignition protection 8846, CE

## WARNING

- DO NOT PUMP OIL, DIESEL FUEL, GASOLINE OR OTHER FLAMMABLE LIQUIDS OVERBOARD. THIS SWITCH DOES NOT PREVENT THE DISCHARGE OF OIL OR CHEMICALS INTO THE WATER. PLEASE TAKE APPROPRIATE MEASURES TO PREVENT DISCHARGING OIL AND CHEMICALS. ALWAYS TEST PUMP AND SWITCH BEFORE OPERATION.
- KEEP ALL WIRE CONNECTIONS ABOVE THE HIGHEST WATER LEVEL. WIRES SHOULD BE SEALED WITH A WATER-PROOF MARINE SEALANT TO PREVENT CORROSION

## Installation

### Location

Locate the pump at the deepest position in the bilge. Keep away from high heat sources; engine, etc. Mount to hull or pad with stainless steel screws.

### Mounting

For best performance, switch should be mounted horizontally. The maximum mounting angle is 20° from vertical.

## DO NOT DRIVE SCREWS THROUGH THE HULL

### Operation

The switch will energize the bilge pump when water level reaches 1-3/4" (44mm) and will turn the bilge pump off when water level falls to 3/4" (19mm). SHURflo recommends installing the Bilge switch cage for optimal performance.

### Electrical:

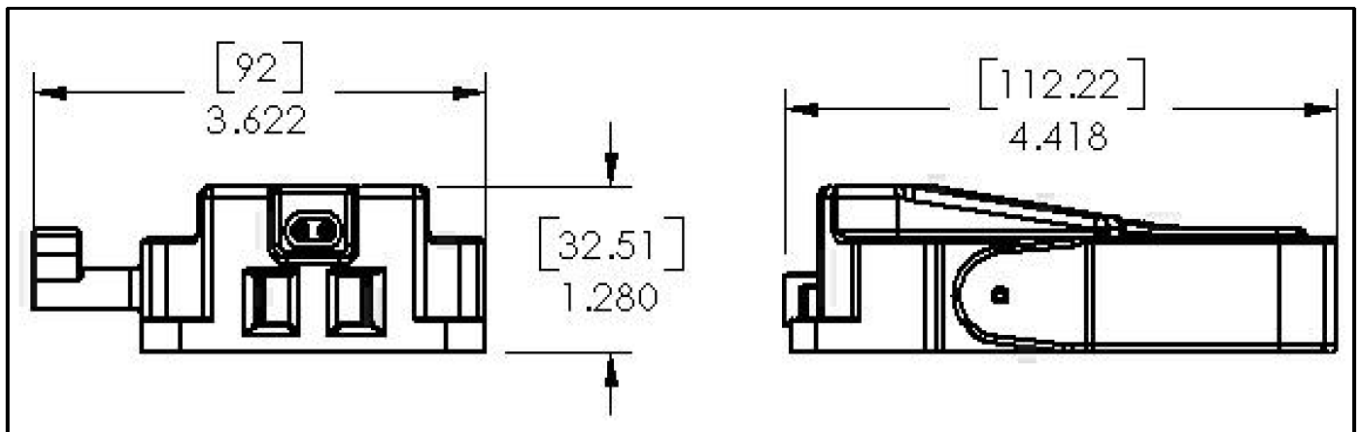
#### Wire Leads

Use 16 AWG wire. Installation over 20 feet, use 14 AWG wire. Wire is tinned to prevent corrosion. To reduce water wicking corrosion through wires, make all connections with waterproof connectors above all splashing bilge water.

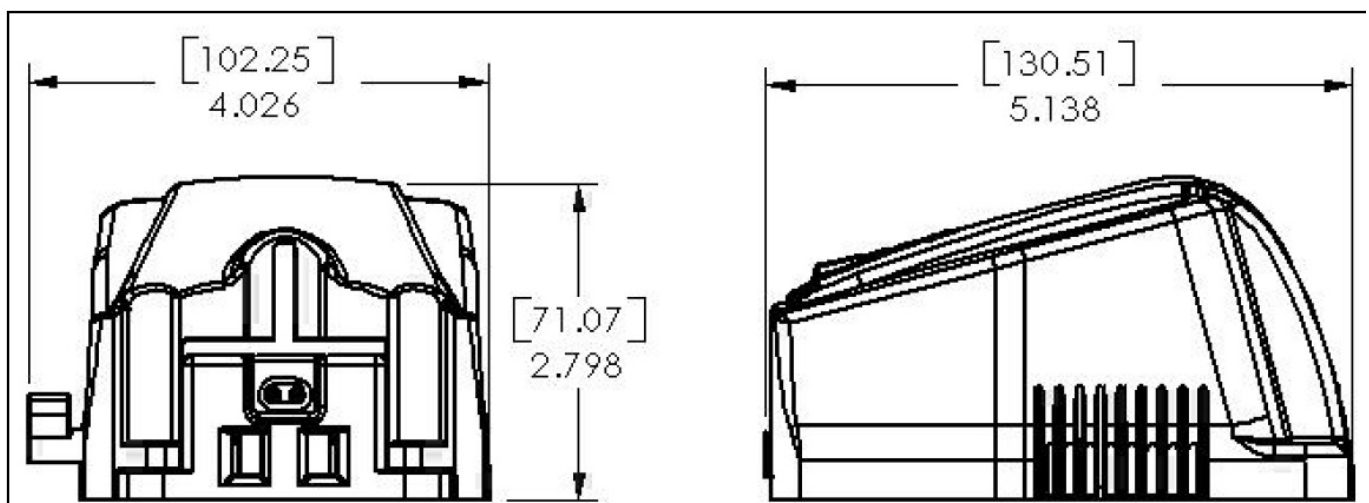
### Wiring tips

- Twist wires together to reduce RFI (radio inter-ference)
- Always use waterproof splices and connectors. Make connections above water line, if possible.
- Use recommended fuse stated on bilge pump label.
- Fuse **MUST** be between battery and panel switch. Some panel switches may have a fuse in them.

### DIMENSIONS WITH OUT CAGE



### DIMENSIONS WITH CAGE

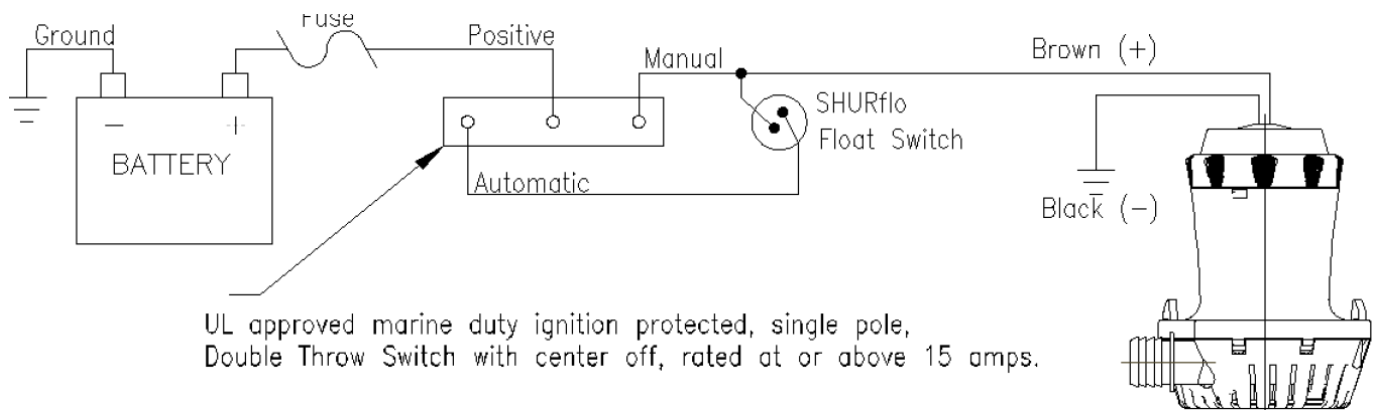


### NOTE:

If replacing the SHURflo Piranha Bilge switch (359-101-00 or 359-111-00) with SHURflo Bilge switch (359-101-30 or 40) use the following procedure for installation.

- Connect one of the BROWN wires from the Float Switch and the Positive (+) from the Battery to the Middle Pin of the three way switch (Panel Switch).
- Connect the other BROWN wire from the Float Switch and the BROWN (+) wire from the pump to the Automatic side of the three way switch (Panel Switch).
- Connect the black wire (-) from the pump to the Battery ground.

**NOTE:** The manual side of the three way switch (Panel Switch) will be disabled. Contact SHURflo customer service for questions.



## LIMITE WARRANTY

SHURflo warrants its SHURflo bilge pump switches to be free of defects in material and workmanship under normal use for a period of three years from the date of manufacture, as indicated on the switch label. Returns are to be shipped to SHURflo. This warranty is only a representation of the complete marine products limited warranty. Outline by Service Bulletin # 1050. Call or write for a copy.

Visit our Web Site at <http://www.shurflo.com> Shurflo reserves the right to update specifications, change prices, or make substitutions without notice.

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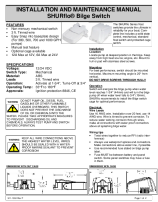
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## Documents / Resources



**PENTAIR SHURflo Automatic Float Switch** [pdf] Instruction Manual  
SHURflo Bilge Automatic Float Switch, SHURflo Bilge, Automatic Float Switch, Float Switch

## References

- [RV Water Delivery Pumps | RV Pumps | Pentair](#)