

# SPXFLOW

INSTRUCTION MANUAL

## Electronic Float Switch 12V/24V

52229 R01  
(04/2019)

**INSTALLATION INSTRUCTIONS: READ AND UNDERSTAND THIS MANUAL PRIOR TO OPERATING OR SERVICING THIS PRODUCT**



› **Johnson Pump®**

## Electronic Float Switch

Suitable for all SPX FLOW Johnson Pump submersible bilge pumps in marine environment. To be installed in the keelson.

- The float switch should be located at the lowest position in the bilge and mounted with base of switch even or below base of bilge pump.
- Always install the switch according to wiring diagram (see illustration #2 and #3)
- The wire connections must be sealed with a marine sealant.
- Insulation or cable sheathings must be placed above the highest bilge water level.

### Installation

The switch is designed to attach the SPX FLOW Johnson Pump Cartridge bilge pump. To attach it to another SPX FLOW Johnson Pump bilge pump, use the adapter provided.

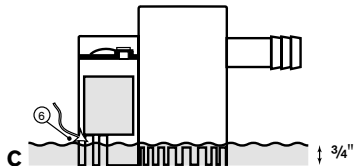
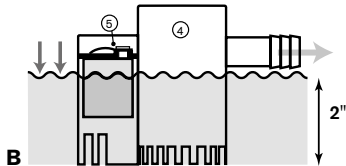
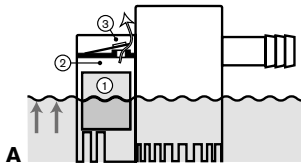
Type designation	Part No. (US)	Ampere draw	
Electronic Float Switch 12V	36152	Type	Max
Electronic Float Switch 24V	36252	36152 12V	15A
		36252 24V	10A

### Operation

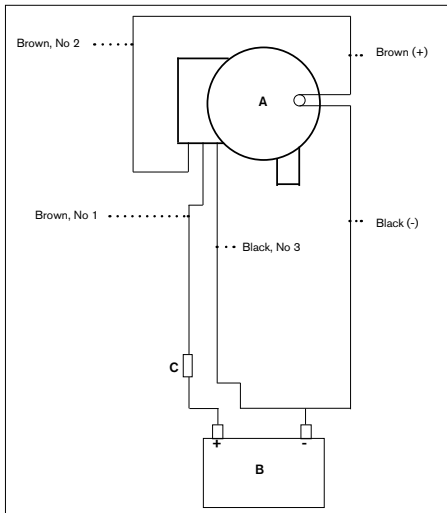
See illustration #1.

- When the bilge water rises the magnet float (1) floats up and the air in the float house (2) is forced out through the vent hole (3).
- The magnet float starts the pump (4) when bilge water reaches 2". The valve (5) closes and the magnet float stays in the start position due to vacuum inside the float house.
- When the bilge water has sunk to level  $\frac{3}{4}$ ", air is let in through the air opening (6) in the float house. The magnet float falls down and cuts off the power.

# Operation - Illustration #1



## Electrical installation without panel - Illustration #2

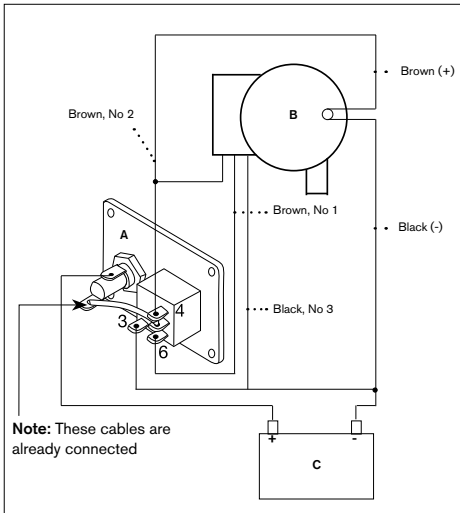


**A** Bilge pump

**B** DC supply

**C** Fuse

### Electrical installation with panel - Illustration #3



**A** Panel Switch

**B** Bilge Pump

**C** DC Supply

SPX FLOW, Inc. Johnson Pump of 5885 11th Street, Rockford, Illinois 61109 warrants to the original consumer purchaser that this bilge pump will be free from defects in material and workmanship, providing that the case is not opened or the pump otherwise abused for a period of 3 years from the date originally purchased. The exclusive remedy of the consumer purchaser in the event the product does not meet this express Limited Warranty is to return the pump to Johnson at the above address, freight prepaid with your sales receipt and \$2.50 to help defray the cost of postage and handling. IMPORTANT: FOR THIS WARRANTY TO BE EFFECTIVE, JOHNSON PUMP MUST BE SUPPLIED WITH THE ORIGINAL PURCHASE DATE OF THE PUMP. THE ACCEPTANCE BY JOHNSON PUMP OF ANY PUMP RETURNED SHALL NOT BE DEEMED AN ADMISSION THAT SUCH PUMP IS DEFECTIVE OR IN VIOLATION OF ANY WARRANTY. THE COMPANY RESERVES THE RIGHT TO REPAIR OR REPLACE THE PUMP. NO REPRESENTATIVE OR OTHER PERSON IS AUTHORIZED TO ASSUME FOR JOHNSON PUMP ANY ADDITIONAL LIABILITY IN CONNECTION WITH THE SALE OF ITS PRODUCTS OR TO ALTER THIS WARRANTY IN ANY WAY. IN NO EVENT WILL SPX FLOW, INC. BE LIABLE FOR MORE THAN THE SALES PRICE OF THE PUMP. UNDER NO CIRCUMSTANCES WILL JOHNSON PUMP BE LIABLE FOR ANY LOST PROFITS, INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES. THE LIMITATION ON LIABILITY FOR LOST PROFITS, INCIDENTAL OR CONSEQUENTIAL COST EXPENSES OR DAMAGES SHALL SURVIVE ANY FAILURE OF ESSENTIAL PURPOSE OF THIS LIMITED WARRANTY.

Some states do not allow the exclusive or limitation of incidental or consequential damages, so the above limitation may not apply to you. **NO EXPRESS OR LIMITED WARRANTY, INCLUDING WARRANTY OF MERCHANTABILITY AND FITNESS SHALL EXTEND FOR ANY PERIOD OF TIME GREATER THAN 3 YEARS FROM THE DATE OF ORIGINAL PURCHASE OF THIS PRODUCT.** Some states do not allow limitation on how long an implied warranty lasts so the above limitation may not apply to you. **CAUTION - Warranty void if seal on pump is broken, if any electric cord is cut back more than 3 inches, if electric splices become submerged, or if pump is installed contrary to instructions or warnings.**

Bilge Pumps are designed to exhaust standing water only. These pumps are not intended for damage control. Bilge Pump capacities may not be sufficient to prevent flooding from rapid accumulation of water due to storms, rough weather and/or rapid leaks created by hull damages or unsafe navigational conditions.

---

#### **Waste management / Recycling**

Dispose of the product in accordance with existing regulations. Where appropriate, dismantle and sort the product by its material fractions.

---



Made by SPX FLOW Johnson Pump®

Assembled in USA

RELIABILITY ON BOARD

-SINCE 1968-

## Customer Service & Support - Johnson Pump Marine

**Phone:** +1 847 671-7867

**E-mail:** [jp-customerservice@spxflow.com](mailto:jp-customerservice@spxflow.com)

For more information about our worldwide locations, approvals, certifications, and local representatives, visit Johnson Pump - Marine at [www.spxflow.com](http://www.spxflow.com)

---

SPX FLOW, Inc. reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit [www.spxflow.com](http://www.spxflow.com). The green ">" and "X" are trademarks of SPX FLOW, Inc.