FTVOGUE FTVOGUEfbmo2hzndy

FTVOGUE Polypropylene Water Level Sensor Vertical Float Switch Instruction Manual

Model: FTVOGUEfbmo2hzndy

1. Introduction

The FTVOGUE Polypropylene Water Level Sensor Vertical Float Switch is designed for reliable and automatic liquid level control. This device is suitable for a wide range of applications, including water supply, drainage systems, and automatic liquid level control in various tanks or reservoirs. Its robust construction ensures stable performance and long service life.

2. Safety Information

- Always disconnect power to the pump or system before installation, maintenance, or troubleshooting.
- Ensure all electrical connections are properly insulated and protected from moisture.
- Do not exceed the specified electrical ratings of the switch.
- Operate within the recommended temperature range of 30°C to 80°C. Avoid temperatures above 85°C.
- Installation should be performed by qualified personnel if you are unsure about electrical wiring.

3. Product Overview

This vertical float switch is constructed from high-quality polypropylene, offering strong anti-interference capabilities, high stability, and resistance to corrosion. Its compact size facilitates easy installation and integration into existing systems.

Key Features:

- **Material:** High-quality Polypropylene
- **Durability:** Non-toxic, corrosion-resistant, strong anti-interference ability
- **Stability:** High stability and long service life

- **Installation:** Small size, simple wiring, easy to install and use
- **Energy Efficiency:** Low power consumption
- **Operating Temperature:** 30°C to 80°C (maximum 85°C)

Figure 3.1: FTVOGUE Vertical Float Switch, showing the main body and yellow connecting wires.

Figure 3.2: Side view of the float switch, highlighting its polypropylene construction and compact design.

4. Specifications

Specification	Value
Brand	FTVOGUE
Model Number	FTVOGUEfbmo2hzndy
Material	Polypropylene
Item Weight	10 g
Product Dimensions	6.8 x 2.5 x 2.5 cm
Operating Temperature	30°C to 80°C (max 85°C)
Batteries Required	No
Country of Origin	China

5. Setup and Installation

Proper installation is crucial for the accurate and reliable operation of the float switch. This device is designed for vertical mounting.

Installation Steps:

1. **Choose Location:** Select a suitable location within the tank or reservoir where the liquid level needs to be monitored. Ensure the float can move freely without obstruction.
2. **Mounting:** Securely mount the float switch in a vertical position. The threaded portion of the switch is designed for easy integration into a compatible fitting. Use the provided sealing washer to ensure a watertight seal.
3. **Wiring:** Connect the two yellow wires of the float switch to your pump control circuit. The switch acts as a simple open/close contact. Consult your pump's wiring diagram for specific connection points for liquid level control.
4. **Test:** After installation and wiring, carefully restore power and test the switch by manually raising and lowering the liquid level (or simulating it) to ensure it activates and deactivates the pump as intended.

Figure 5.1: The float switch shown in its intended vertical mounting orientation.

Figure 5.2: Close-up of the wiring connections on the float switch.

6. Operating Instructions

The FTVOGUE Vertical Float Switch operates based on the principle of buoyancy. As the liquid level changes, the internal float moves, activating or deactivating an electrical contact.

Operation:

- When the liquid level rises, the float moves upwards. At a predetermined level, the float's movement triggers an internal switch.
- When the liquid level falls, the float moves downwards. At a predetermined level, the float's movement triggers the internal switch in the opposite direction.
- This switching action can be used to start or stop a pump, activate an alarm, or control other devices based on the liquid level.
- The switch can be configured for either normally open (NO) or normally closed (NC) operation depending on your wiring and application requirements.

7. Maintenance

The FTVOGUE float switch is designed for minimal maintenance due to its durable polypropylene construction. However, periodic inspection is recommended to ensure optimal performance.

Maintenance Tips:

- **Visual Inspection:** Regularly check the float switch for any signs of physical damage, wear, or accumulation of debris that might impede float movement.
- **Cleaning:** If operating in environments with suspended solids or viscous liquids, periodically clean the float and stem to prevent buildup. Use mild soap and water; avoid harsh chemicals.
- **Wiring Check:** Ensure all electrical connections remain secure and free from corrosion.
- **Functionality Test:** Periodically test the switch's operation by observing its response to changing liquid levels.

8. Troubleshooting

If the float switch is not operating as expected, consider the following common issues and solutions:

Problem	Possible Cause	Solution
Switch does not activate/deactivate	Incorrect wiring	Verify wiring against your pump control circuit diagram.
	Float obstructed	Check for debris or physical obstructions preventing float movement. Clean if necessary.
	Faulty switch	Test the switch with a multimeter for continuity. Replace if faulty.
Inconsistent switching	Debris on float/stem	Clean the float and stem thoroughly.
	Excessive turbulence	Consider installing a baffle or stilling tube around the float switch to reduce turbulence.

9. Warranty and Support

For warranty information or technical support, please contact FTVOGUE customer service through the retailer where the product was purchased or visit the official FTVOGUE brand store online. Please have your model

number (FTVOGUEfbmo2hzndy) and purchase details ready when contacting support.

FTVOGUE is committed to providing quality products and customer satisfaction. For more information about FTVOGUE products, you can visit the FTVOGUE Store.