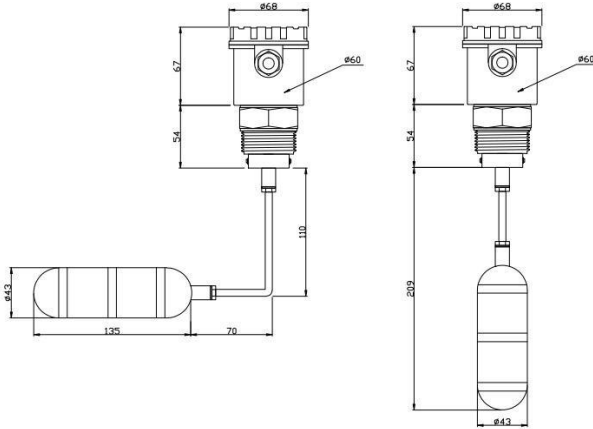




Side Mounted Float Level Switch

WPS series

Installation instruction



1. Product Introduction

The side-mounted float level switch is characterized by convenient use, simple structure, safety and reliability, long working life, small size, fast speed, sturdy and durable, and the service life of the contact can reach 1 million times. Widely used in petrochemical industry, generator equipment, food industry, water treatment, electrician and other industries.

2. Working Principle

When the float floats up and down under the buoyancy of the liquid, the reed switch (or micro switch) in the junction box interacts with the arm end magnet to cause the reed switch (or micro switch) to act. At the same time, it outputs the signal of opening (ON) and closing (OFF), which is used for alarm prompt or remote control.

3. Product Features

1. It can be installed horizontally on the side wall of the tank or vertically on the top of the tank;
2. Its structure is simple, its performance is stable and reliable, and its installation is convenient;
3. The control part is completely isolated from the measured liquid medium, and can be used in high temperature and high pressure environments;
4. Multiple materials and connection methods can meet the needs of different environments;
5. Not easily affected by viscous liquids.

4. Technical Parameters

Side-mounted threaded/ flange type

- 1、Wiring box: ABS aluminum
- 2、Output contact: 5A/220VAC
- 3、Contact form: SPDT (IC)
- 4、Operating pressure: 15Bar (can 2Mpa)
- 5、Operating temperature: -20--200℃
- 6、Wetted material: SUS304/316
- 7、Applicable specific gravity: 0.65

Top-mounted threaded/flange type

- 1、Wiring box: ABS aluminum
- 2、Output contact: 5A/220VAC
- 3、Contact form: SPDT (IC)
- 4、Operating pressure: 30Bar
- 5、Operating temperature: -20--120℃
- 6、Wetted material: SUS304/316
- 7、Applicable specific gravity: 0.55

5. Usage Notes

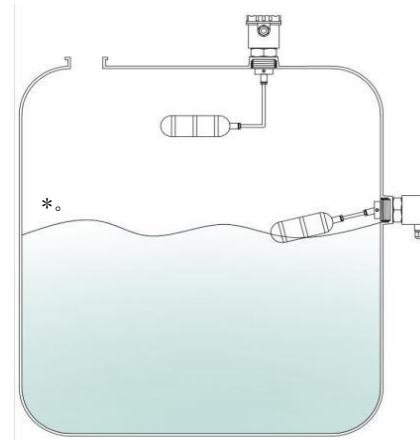
- 1). Regularly clean the sundries and dirt on the connecting rod and floating ball (period depends on the water quality);
- 2). Regularly check whether the connecting parts are firm;
- 3). The specific gravity of the liquid should be considered to ensure that the float can float smoothly;
- 4). The control line load cannot be overloaded (less than the contact capacity);
- 5). The electrical interface of the junction box must face downward;
- 6). Please use anti-corrosion materials for acidic and alkaline liquids;
- 7). The floating ball and the connecting rod shall not collide with the process connecting pipe of the vessel.

6. Installation Method

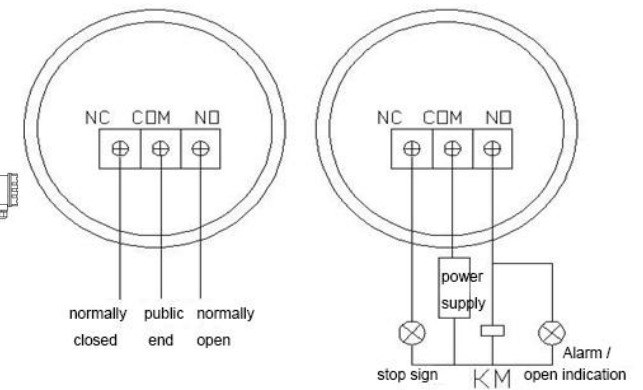
1. The installation should be far away from the water inlet (outlet) to avoid malfunction caused by splashed water;
2. If installed in a stirring area, anti-wave pipes or baffles can be installed;
3. The control line load cannot be overloaded (used less than the contact capacity);
4. The upward and downward movement angle (with the horizontal line) of the floating ball and its connecting rod is ± 14 degrees, and the switch operates when the floating ball is in the horizontal position;
5. When installing, pay attention to the length and hole diameter of the matching connecting pipe to ensure the floating range of the float.

※Note: There is a certain error in the total length of the float and connecting rod.

7. Installation Diagram



8. Wiring Diagram



According to different control wiring control model will be different.

9. Unpacking & Inspection

- 1). The packaging should be intact.
- 2) If you find that the product is damaged or parts fall off and loose when unpacking, please notify us.
- 3) Packing content: 1) One product 2) One manual 3) One product certificate