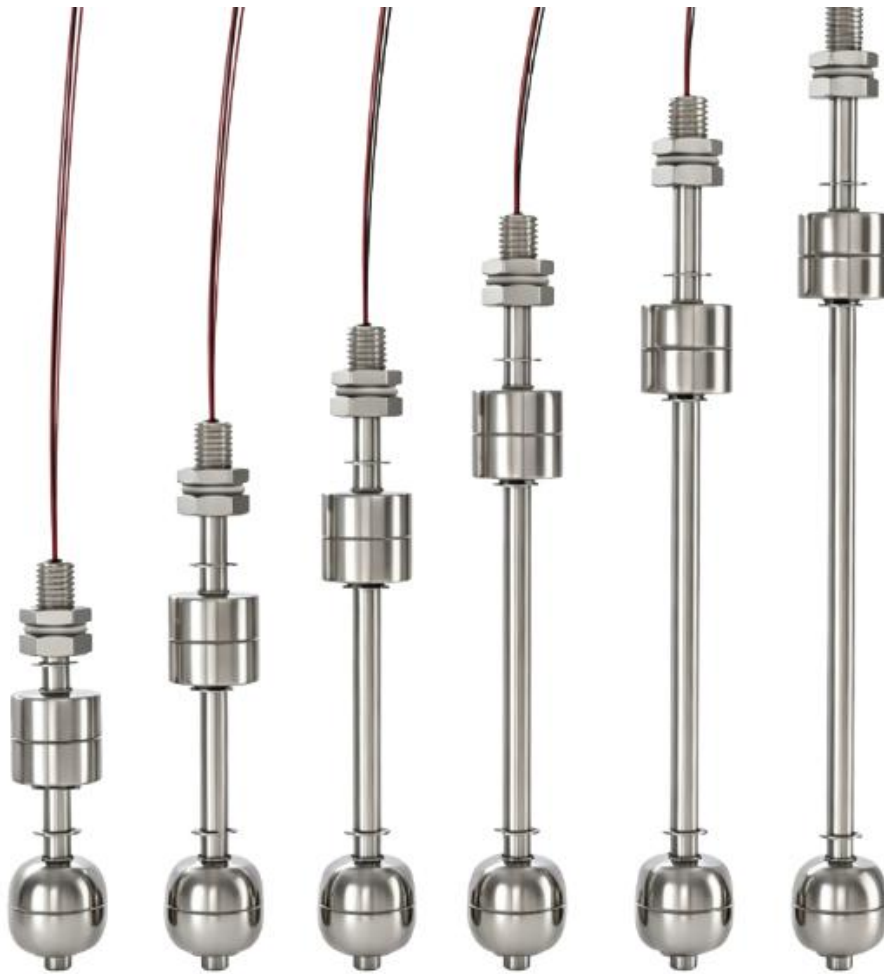




Dual Point Level Float Switch User Manual



1. Introduction

The Dual Point Level Float Switch is a liquid level control device with a simple structure and easy operation. It requires no external power supply and has no complex circuits. Compared with ordinary mechanical switches, it offers advantages such as smaller size and longer service life. As long as the correct materials are selected, it can be used with any type of liquid, pressure, or temperature. It is widely applied in shipbuilding, generator equipment, petrochemicals, food processing, water treatment, dyeing and finishing, hydraulic machinery, and many other fields.

2. Working principle

The level sensor of the Dual Point Level Float Switch is mainly composed of reed switches and a float. The float contains magnetic material. One or more reed switches are installed inside a sealed non-magnetic metal or plastic tube. The guide tube passes through one or more floats that contain magnetic material, and fixed double rings are used to position the floats relative to the reed switches. As the liquid level rises or falls, the float moves accordingly. When the float approaches a reed switch, the magnetic field activates the switch (closing the contact); when the float moves away, the switch opens. This on-off action is used for level control or indication.



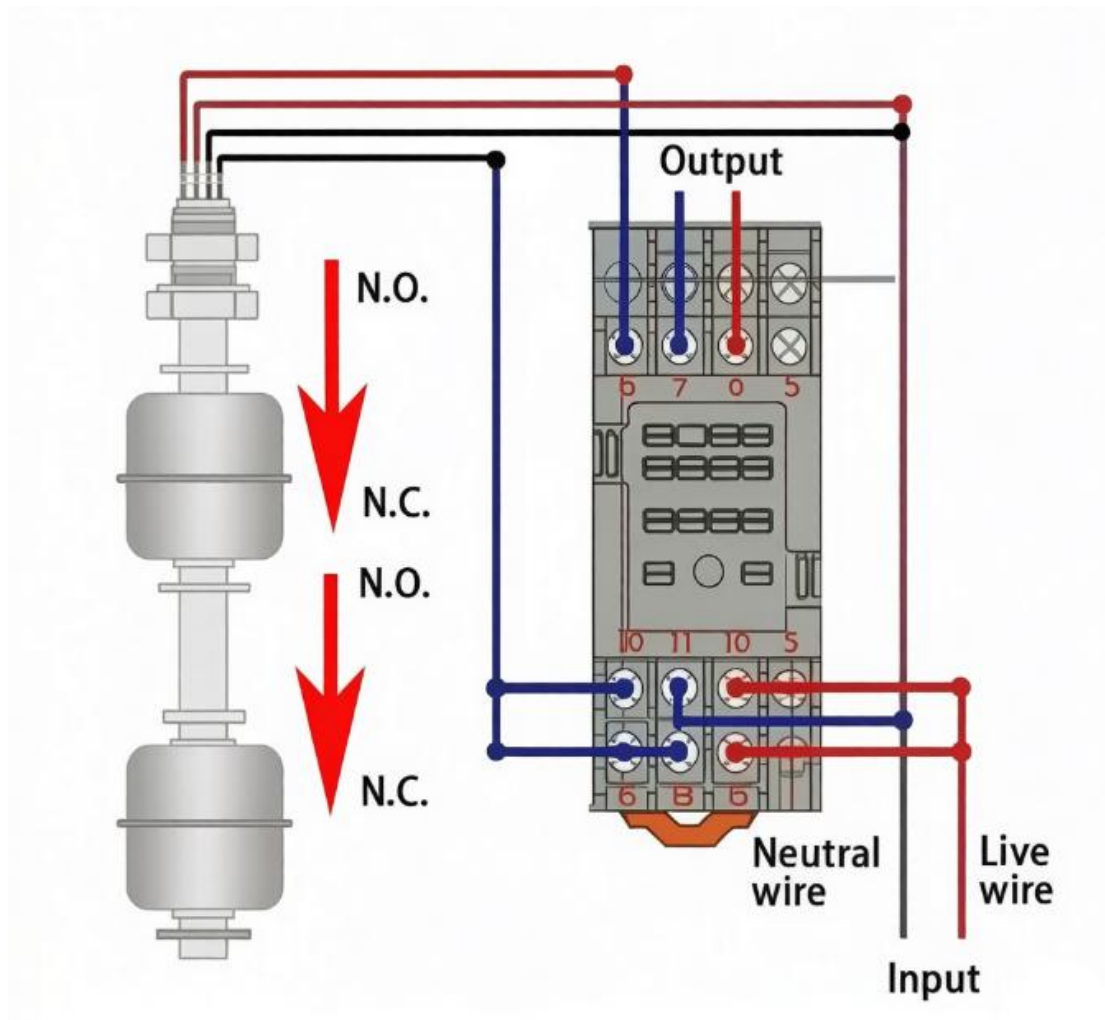
3. Specification

Parameter	Value
Contact rating	50W
Switching voltage	220VAC / 200VDC
Switching current (resistive load)	0.5A
Insulation resistance	>10Ω
Contact resistance	<10mΩ
Resistive load cycles	10 ⁷ times
Operating temperature	–10~100°C
Specific gravity of medium	>0.8
Working pressure	<0.6 MPa
Switch material	SUS304
Reed switch current (for 12mm diameter float switch)	220V, 1A

4. Wiring Method

Adjustable float switch – users should prepare a multimeter for adjustment. Adjustment video guidance can also be requested from the supplier for setup assistance.

Water supply (filling) wiring method:



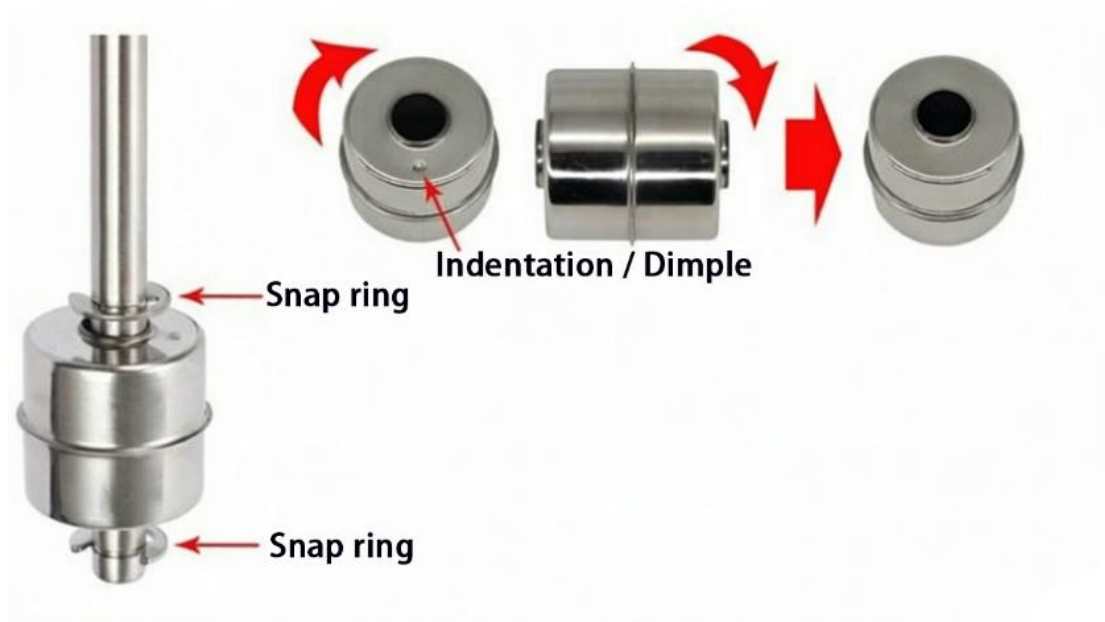
Notes:

1. The two red wires are the control wires for the upper float.
2. The two black wires are the control wires for the lower float.
3. Take any one red wire and any one black wire as the common wires.



Precautions for the 8mm diameter small float switch:

1. The contact rated current is 0.5A – pay special attention to this.
2. It should generally be used together with a small relay.
3. Exceeding this current will burn the contacts.
4. Do not directly control AC contactors, solenoid valves, alarms, pumps, time relays, level relays, or similar devices.



Instructions for switching the float between normally open and normally closed states:

1. Factory default: the concave point of the float faces upward (normally closed).
2. Use pliers to remove the retaining clip (circlip).
3. Reverse the direction of the lower float so that the concave point faces downward (normally open).
4. Reassemble in the reverse order.

Guidelines for Connecting Stainless Steel Float Valves for Water Intake and Drainage

