

SF141 Float series level switches



Introduction

Magnetic float-level switches principle: the float which link to rod equipped with a constant magnetic field, Because of the liquid level rise or fall, make the float internal generated magnetic field, thus triggered the reed which inner rod action. Widely application to liquid level measurement, liquid level alarm and level security control field.

Features

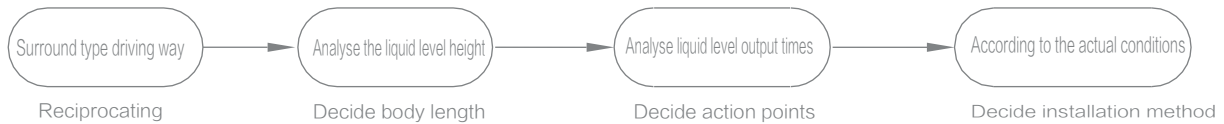
- N.O. or N.C. by reversing 180 °
- Internal installation, the connection type can be defined by the customer
- Shell material: Stainless steel
- High cost performance, high stability, long service life

Applications

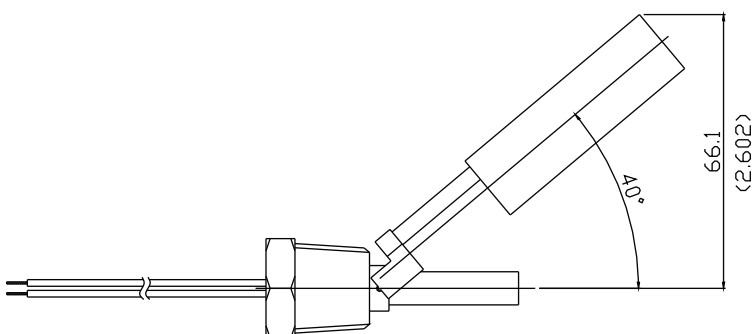
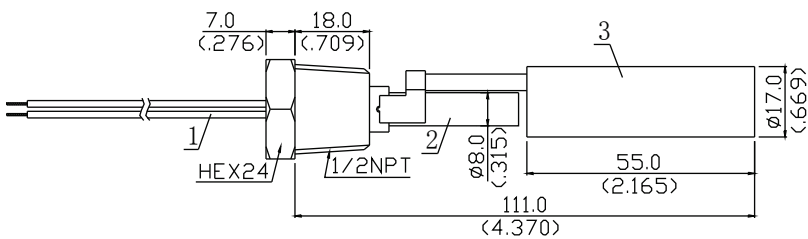
- Level control, level measurement
- Pot level measurement
- Water heater, coffee machine, water dispenser, humidifier, etc
- Container level detection

Level switches selection rules

While using permanent magnet as a trigger to drive the Mount switches, they usually according to the following method and order

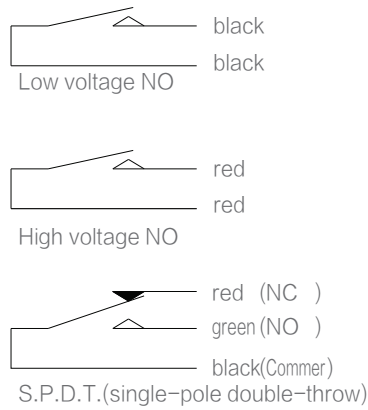


Dimensions and Operation Demonstration

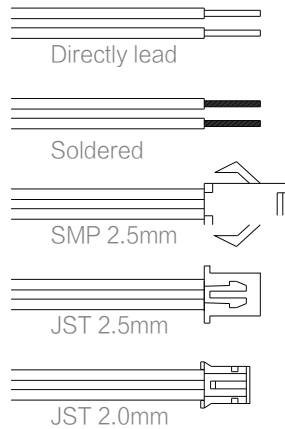


| No. | Name | Specifications |
|-----|-------|-------------------------|
| 1 | Wire | UL1332 22AWG 200°C 300V |
| 2 | Shell | SUS304 |
| 3 | Float | SUS304 |

Connection mode



Outlet Mode



Electrical Specification

| Electrical Specification | | | |
|-----------------------------|--------------------|--------------------|--------------------|
| Model | 1 | 2 | 3 |
| Switched Power(max) | 10W | 70W | 5W |
| Switched Voltage (max) (DC) | 200V | 200V | 175V |
| Switched Voltage (max) (AC) | 140V | 250V | 125V |
| Switched Current (max) (DC) | 500mA | 1000mA | 400mA |
| Switched Current (max) (AC) | 500mA | 1000mA | 280mA |
| Breakdown Voltage(min) | 250V DC | 580V DC | 200V DC |
| Carry Current (max) | 1.0A | 2.25A | 0.5A |
| Contact Resistance (min) | 200mΩ | 200mΩ | 200mΩ |
| Insulation Resistance (min) | 10 ⁸ MΩ | 10 ⁸ MΩ | 10 ⁸ MΩ |
| Operating Temperature | -40℃~+125℃ | -40℃~+125℃ | -40℃~+125℃ |

Note: Above the wire color, model and outlet mode can be customized

Note: Above the specifications can be customized

Products selection table

| SF1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | - | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Selection description |
|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--|
| Level switches installation method | 1 | | | | | | | | | | | | | | | | | | | Vertical installation type plastics shell |
| | 2 | | | | | | | | | | | | | | | | | | | Horizontal installation type plastics shell |
| | 3 | | | | | | | | | | | | | | | | | | | Vertical installation type stainless steel shell |
| | 4 | | | | | | | | | | | | | | | | | | | Horizontal installation type stainless steel shell |
| Level switches sizes code | X | | | | | | | | | | | | | | | | | | | Sizes Code |
| Series code | | X | X | | | | | | | | | | | | | | | | | 01~99 |
| Body length | | | | | X | X | X | X | | | | | | | | | | | | Unit:mm |
| Output signal | | | | | | | | | X | X | X | X | | | | | | | | Appendix 7-1 |
| Installation | | | | | | | | | | | | X | X | | | | | | | Appendix 7-2 |
| Wiring | | | | | | | | | | | | | | X | X | | | | | Appendix 7-3 |
| Float Type | | | | | | | | | | | | | | | | | P | | | PP float |
| | | | | | | | | | | | | | | | | | N | | | NBR float |
| | | | | | | | | | | | | | | | | | S | | | Stainless steel float |
| Float code | | | | | | | | | | | | | | | | X | X | | | Float code |
| Other else | | | | | | | | | | | | | | | | | | | T | Thermal resistance |

Example: SF14101-61-K1H1-N4P-Z

Horizontal installation type plastics shell level sensor, rod length 61mm, switch output, normally open type, 1 group output, installation Thread M8, standard PVC cable, F141 float.

