

SFLS300 Float Level Switch

WORKING PRINCIPLE

SFLS300 series side mounted floating ball liquid level switch is based on the liquid buoyancy principle. When the floating ball moves up and down due to the buoyancy, the magnetic spring switch in the junction box is affected by the arm end magnet, and the "no" and "NC" contacts are exchanged. The same principle is applied to the microswitch device. The magnet in front of the microswitch and the magnet at the arm end push the microswitch, resulting in "no" and "NC" actions.



MAIN FEATURES

- "Microswitch" or "magnetic spring switch" can be selected. The operating temperature is below 100 °C
- SUS304, PP and SUS316 can be selected for liquid connection part, and explosion-proof type (except PP) can also meet the requirements
- A variety of floating ball specifications, can be applied to a variety of different specific gravity liquid
- Multi material and multiple connection modes can meet the needs of different environments
- Long working life, the control part is completely isolated from the probe, high temperature and high pressure resistance
- Simple structure, stable and reliable performance, convenient installation

CONSTRUCTURE



1. Floating ball 2. Fixed shaft 3. Flange 4. Ball pole 5. Junction box 6. Magnetic spring switch 7. Terminal 8. O-ring 9. Outlet 10. Magnet 11. Thread 12. Microswitch



TYPES & SPECIFICATION

SFLS310 thread type

Junction box: aluminum alloy (IP65), contact capacity: 5A / 250VAC

Contact material: SUS304 or SUS316

Connection specification: 1-1 / 2 "PT teeth (customized) Contact type: SPDT temperature resistance: - 10 ° C-100 ° C Applicable specific gravity: ≥ 0.6g/cm3; installation method: side mounting;



SFLS320 flange type

Junction box: aluminum alloy (IP65), contact capacity: 5A / 250VAC

Contact material: SUS304 or SUS316

Connection specification: 1-1 / 2 ** 5kg flange (can be customized)

Contact type: SPDT temperature resistance: - 10 ° C - 100 ° C Applicable specific gravity: 20.6g/cm3 Installation method: side mounted

SFLS330 top mounted type

Junction box: aluminum alloy (IP65) Contact material: SUS304 or SUS316 Contact type: SPDT Applicable specific gravity: \geq 0.6g/cm3 Connection specification: 2 "* 5kg flange (can be customized) Installation method: top mounting Contact capacity: 5A / 250VAC Temperature resistance: - 10 ° C-100 ° C



SFLS311 thread high temperature type

Junction box: aluminum alloy (IP65)

Contact capacity: 30W / 200VDC

Contact material: SUS304 or SUS316

Connection specification: 1-1 / 2 "PT teeth (customized)

Contact type: SPDT

Temperature resistance: - 10 ° C - 200 ° C

Applicable specific gravity: 20.6g/cm3 installation method: side mounted



SFLS321 flange high temperature type

Junction box: aluminum alloy (IP65), contact capacity: 30W / 200VDC $\,$

Contact material: SUS304 or SUS316

Connection specification: 1-1 / 2 ** 5kg flange (can be customized)

Contact type: SPDT

Temperature resistance: - 10 * C - 200 ° C

Applicable specific gravity: 20.6g/cm3

Installation method: side mounted



SFLS331 top mounted type

Junction box: aluminum alloy (IP65) Contact material: SUS304 or SUS316 Contact type: SPDT Applicable specific gravity: ≥ 0.6g/cm3 Connection specification: 2 "* 5kg flange (can be customized) Installation method: top mounting Contact capacity: 30W / 200VDC Temperature resistance: - 10 ° C-200 ° C



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SFLS340 hyperbolic

Junction box: aluminum alloy (IP65), contact capacity: 5A / 250VAC

Contact material: SUS304 or SUS316

Connection specification: 2 "* 5kg flange (can be customized) Contact type: SPDT T

Temperature resistance: - 10 ° C-100 ° C

Applicable specific gravity: ≥ 0.6 g/cm3 installation method: side mounting



SFLS380 acid and alkali resistant flange type

Junction box: PC

Contact capacity: 5A / 250VAC

Contact material: PP Connection specification: 2 "* 5kg flange

Contact type: SPDT

Temperature resistance: - 10 ° C-80 ° C

Applicable specific gravity: ≥ 0.6 g/cm3

Installation method: side mounted



SFLS370 explosion proof threaded type

Junction box: stainless steel (IP65), contact capacity: 5A \prime 250VAC

Contact material: SUS304 or SUS316

Connection specification: 1-1 / 2 "PT teeth (custom made) Contact type: SPDT

Temperature resistance: - 10 ° C-100 ° C Applicable specific gravity: ≥ 0.6g/cm3; Installation method: side mounting; Explosion proof grade: Exdiict4-6



SFLS341 hyperbolic high temperature type

Junction box: aluminum alloy (IP65), contact capacity: 30W / 200VDC

Contact material: SUS304 or SUS316

Connection specification: 2 ** 5kg flange (can be customized) Contact type: SPDT

Temperature resistance: - 10 ° C-200 ° C

Applicable specific gravity: 20.6g/cm3 installation method: side mounted



SFLS381 acid and alkali resistant threaded type

Junction box: aluminum alloy (IP65), contact capacity: 5A / 250VAC

Contact material: SUS304 or SUS316 Connection specification: M20 * 1.5 Contact type: SPDT Temperature resistance: - 10 ° C-80 ° C Applicable specific gravity: 20.6g/cm3 Installation method: side mounted



SFLS371 explosion proof flange type

Junction box: stainless steel (IP65), contact capacity: 5A / 250VAC Contact material: SUS304 or SUS316 Connection specification: 1-1 / 2 "* 5kg flange (can be customized) Contact type: SPDT

Temperature resistance: - 10 ° C-100 ° C Applicable specific gravity: 20.6g/cm3 Installation method: side mounted Explosion proof grade: Exdiict4-6



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INSTALLATION INSTRUCTIONS

The length of the connecting pipe used by customers is directly proportional to the diameter of the pipe. Please refer to the table below for the matching size



| Tube diameter (A) | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 |
|-----------------------|-------|-------|-------|-------|-------|
| Lengthy (B) (Max.) | 130 | 140 | 150 | 160 | 170 |

INSTALLATION ATTENTIONS



 Plastic material should be used in acid and alkali solution

Unit: mm

2. The inlet of the junction box should face downward

3. All floating balls and clubs must enter the tank

4. The specific gravity of liquid should be considered before installation

5. The reserved hole for installation must be larger than the outer diameter of floating ball

6. Do not install near the liquid inlet when installing

4. The moving range of floating ball and connecting rod is 22 degrees

7. The action point is that the floating ball is in horizontal position



ORDER CODE

| SFLS | Float level switch | | | | | | | | | |
|------|---|---|---|--|---------------------------------|---|---|--|--|--|
| | CODE | Model type | | | | | | | | |
| | 310 | Thread high temperature type | | | | | | | | |
| | 311 | High temperature type Flange type | | | | | | | | |
| | 320 | | | | | | | | | |
| | 321 | Flange high temperature type | | | | | | | | |
| | 330 | Top mounted | | | | | | | | |
| | 331 | Top mounted high temperature type | | | | | | | | |
| | 340 | Hyperbolic | | | | | | | | |
| | 341 | Hyperbolic high temperature type | | | | | | | | |
| | 370 | '0 Explosion proof threaded type | | | | | | | | |
| | 371 | Explosion proof flange type | | | | | | | | |
| | 381 | Acid and alkali resistant threaded type | | | | | | | | |
| | | CODE | CODE Float type | | | | | | | |
| | A Φ 75 * 120 (withstand voltage 5kg / cm2, specific gravity 0.25) | | | | | | | | | |
| | | В | Φ 41 * 150 (withstand voltage 15kg / cm2, specific gravity 0.65) | | | | | | | |
| | | С | Φ 50 * 150 (withstand voltage 15kg / cm2, specific gravity 0.55) | | | | | | | |
| | | D | Φ 41* 125 (withstand voltage 30kg / cm2, specific gravity 0.65) | | | | | | | |
| | | | CODE | Connect | ion mode | | | | | |
| | | | - | A: 1-1/2" (40A) B: 2" (50A) C: 2-1/2" (65A) D: 3" (80A) E:4" (100A) F:5" (125A) G: 6" (150A) H: 92x92 | | M: 5kg/cm2 N: 10kg/cm' O: 150Lbs P: 300Lbs Q: PT T: BSP U: NPT S: customized | W: PN10 (10Bar) X: PN16 (16Bar) Y : PN25 (25Bar) Z: PN40 (40Bar) | | | |
| | | | | CODE | Length (mm) | | | | | |
| | | | | - | Customized according to request | | | | | |
| SFLS | 330 | А | А | 100 | Order example | | | | | |

*Float type as follows:



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