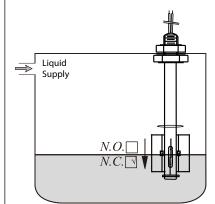
Vertical Level Sensor Two Ball Two Point

100, 150, 200, 300, 500mm Vertical PP Level Sensor



Small Size Rugged Durability, With Broad Heat and Pressure Capabilities,



Polypropylene Plastic (PP) material is often chosen for its resistance to corrosion and chemical leaching, its resilience against most forms of physical damage, including impact and freezing and its environmental benefits.

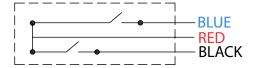


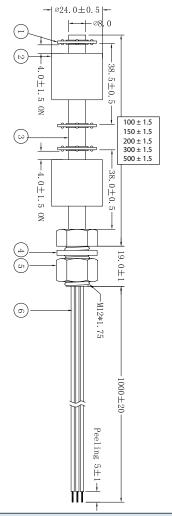
Order code

Series	Length mm	Ball	Point	Material
PSB2	100, 150, 200, 300, 500	2	2	PP
	Other Length are available on request			Polypropylene Plastic

- 1. Locking Ring PP Material
- 2. Float Ball PP Material
- 3. Float Body PP Material
- 4. Washer Transparent Silicone Material
- 5. Nuts M12*1.75 PA Material
- 6. Wire UL1007 22AWG, Silicone insulated for high temp. Black wire

INTERNAL SCHEMATIC DIAGRAM





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Material Description

Reed: 10W
Magnet: Ferrite
Resin: White Resin

Switching Characteristics

Operation Life: 1*10⁶ (DC: 5V, 10mA)
Insulation resistance : ≥100MΩ
Contact resistance : ≤ 0.4Ω
Max. limiting current :1.0A
Max. switching current : 0.5A
Contact the min. pressure DC:250V
Max. switching voltage : 100V

8. Max. contact power : 10W9. Switch type : Normally open (A)

Material Properties

Min. Shock Resistance: 30G
Suitable temperature: -20°C + 80°C
Min. vibration: 30G (10~50Hz)
Humidity: 95%RH (80°C)

5. Waterproof: (Float Ball) 6% (1000hr)

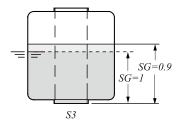
6. For : water

INTRODUCTION

The reed switch relies on two basic scientific principles namely: buoyancy and magnetism. Buoyancy causes the float (which contains a magnet) to rise with the liquid and magnetism helps open and close the switch. Since this product's this product has been introduced to the market, it has seen significant improvement and advances with regards to convenience, safety and lowering costs. The float switches are extremely compact, simple and are easy to install on any small locations. These switches are not affected by electrical interference and can withstand chemicals, high temperatures and pressures if the correct material of float switch is selected.

LIQUID PROPERTIES AND FLOATS

The switch's float should always have a specific gravity (SG) less than the liquid that holds the float. (SG float SG liquid) When the liquid level rises the float will rise up due to its buoyancy. The float's upward movement will actuate the switch and close the circuit. Different float materials can be used to ensure the float's SG level is less than the liquid. (Water's SG level is 1 while gasoline SG levels tend to be less than 1). Because the float switches are activated by the magnetic field inside the float, make sure the liquid contains no iron traces or substances that can induce magnetic interference.



LIQUID PROPERTIES AND FLOATS

Fig. 1 illustrates the pivot activation (FCH Type reed switch). When float's magnet is moved close to the switch's stationary stem, the float magnet pushes the stem's switch circuit together and closes the electrical circuit. When the float magnet is moved away from the stem, the switch circuit separates and the circuit is opened.

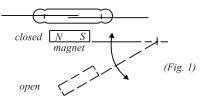
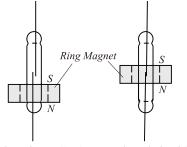


Fig. 2 illustrates perpendicular activation (FC V TYPE float reed switches). When the liquid level rises and pushes the float up, the float's ring magnet (sealed in the float) moves close to the switch's stationary stem. The magnet pushes the circuit together and when it makes contact, it closes the electrical circuit. When the float magnet moves away from the switch, the circuit contact is released and the switch is opened.



Reed switch open (OFF) Reed switch closed (ON)

(Fig. 2)