

PSS-318211

Water level upper limit sensor

Related Products

Product.	Interf.	Descriptions
PSS-318211	Switch	Water level upper limit sensor (rod shape, Range: 0.8meter)
PSS-318212	Switch	Water level upper limit sensor (rod shape, Range: 1meter)
PSS-318213	Switch	Water level upper limit sensor (rod shape, Range: 1.2meter)

Product introduction

PSS-318211 Water level upper and lower limit (0.8m) sensors, immersion switch, magnetic operation, no mechanical connectors, simple and reliable operation. When the float switch floats the measured medium, the float drives the main body to move, and the magnet at the other end of the float will control the magnet on the switch action rod.

Detection principle

It is mainly composed of a magnetic spring switch and floats. There is magnetic material in the float. When the float moves up and down with the measured liquid level, touch the magnetic spring switch to detect the liquid level position.

Product features

- ❖ Sensor monitoring: upper and lower limits of water level (0.8m)
- ❖ 4 Teflon wires, high temperature resistant, wire length 0.4m
- ❖ 316L snap ring, durable in humid environment without rust, laser seamless welding
- ❖ High efficiency epoxy resin adhesive with good sealing performance
- ❖ Smaller than general mechanical switch
- ❖ Long service life
- ❖ Each floating ball can realize normally open / normally closed function
- ❖ Support non-standard customization



Product parameters

Parameters	
Switch action	Reversible
Operating pressure	10kg/cm
Contact impedance	<100m
Insulation impedance	>10Ω
Resistive load	107 loops
Wetted material	SUS304 / SUS316 (316L can be customized)
Floating ball material	Stainless steel 304 material
Circlip material	316L material
Cable	Default 0.4 m, High temperature Teflon wire can be customized
Medium specific gravit	>0.75
Opening size	10mm (one inch pipe tooth can be customized)

Interface

Output signal	SWITCH
Warranty	
Warranty period	1year
Mechanics	
Working temperature	- 10 ~ 120 ° C (150 ° C to 350 ° C can be
Conductor specification	White silica gel high temperature line
Installation mode	Vertical installation
Power	
Power	3.5~5V
Power supply type	Replaceable ER34615 3.6V Li-SOCI2 battery; DC 4.5V - 12V optional
Withstand voltage	240VAC/200VDC
Maximum switching current	0.5A
Maximum energizing current	1A

Application

The water level sensor is widely used in the liquid level control of industrial water tower, water tank, drainage pool, fish tank, household water tower and chemical liquid, and the anti dry burning water level sensor of water heating equipment such as kitchen equipment and water heater. It has a wide application prospect in automobiles, industrial equipment, agricultural equipment and household appliances.

Ordering Guide

- ❖ PSS-318211 sensor is a sensor only, it needs to use with WxS terminals to combine to different product series; On the basis of the combination, multiple PSS sensors can be loaded through the Multiple Purpose Interface (MPI) of the intelligent IoT terminal.
- ❖ According to the specific scenario of use case, the enclosure and antenna of intelligent IoT terminal will be replaced to ensure the product quality and performance.
- ❖ PSS sensors can be integrated with the WxS terminal via the MPI interface to form different product series.
- ❖ Example of products are as follows:
 - WxS7800-318211 WiFi Series Water level upper limit Smart Sensor & RTU 2-in-1 Terminal
 - WxS8800-318211 LoRaWAN Series Water level upper limit Smart Sensor & RTU 2-in-1 Terminal
 - WxS9800-318211 NB-IoT (China) Series Water level upper limit Smart Sensor & RTU 2-in-1 Terminal
 - WxS9900-318211 NB-IoT (Global) Series Water level upper limit Smart Sensor & RTU 2-in-1 Terminal
 - WxSC800-318211 LTE Cat1 Series Water level upper limit Smart Sensor & RTU 2-in-1 Terminal
 - WxSC900-318211 LTE Cat1 w/GPS Series Water level upper limit Smart Sensor & RTU 2-in-1 Terminal
 - WxSD800-318211 LTE Cat4 Series Water level upper limit Smart Sensor & RTU 2-in-1 Terminal
 - CxS1800-318211 Ethernet (RJ45) Series Water level upper limit Smart Sensor & RTU 2-in-1 Terminal