

DATASHEET**Level**

Capacitance Level Sensor

For food and sanitary applications

Model PWL-CS

Applications

- Food
- Pharmaceutical
- Beverage processing
- Brewing
- Biological products
- Milk processing
- Juice and cooking oil

Features

- Sanitary type
- Support local ZERO and SPAN calibration
- Easy to install no need any settings
- No elastic or movable parts, impact of resistance
- No effect from different medias, temps
- Anti-adhesion, anti-hanging, anti-foam

**Level Sensor PWL-CS**

Description

PWL-CS sanitary level sensor is a special instrument customized for food and sanitary industries. It adopts standard sanitary stainless steel quick connector and automatic calibration sensor structure, and there is no sanitary dead corner in the contact between the whole machine and the medium.

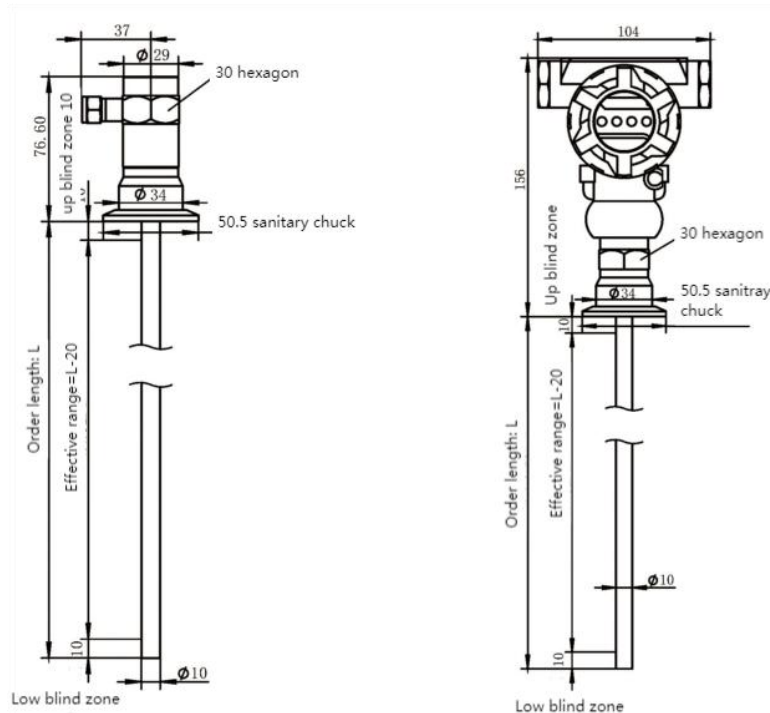
It is based on the principle of radio frequency capacitance measurement and adopts tomography technology. It dynamically analyzes various parameters of the sensor in the medium, automatically performs accurate compensation, and the output signal changes linearly and continuously with the change of the liquid level.

It has super anti-fouling ability such as anti-hanging, anti-condensation, and anti-bubble. It is an ideal product for measuring liquid level in related industries.

Specifications

Model	PWL-CS
Probe Diameter	Φ10mm, Φ16mm
Order Length	50-2000mm
Working Pressure	-0.1MPa~1.6MPa
Accuracy	0.5%FS
Medium Temp.	-60℃~+120℃
Environmental Temp.	-40℃~+85℃
Measurement Cycle	0.1 second
Electrical Connection	Fixed cable by stainless steel cap or industrial interface
IP Rating	IP67/IP65
Cable Length	1000mm or by customized
Signal Output	4-20mA 2 wires, RS485 Modbus
Power Supply	18-36VDC
Process Connection	50.5mm Sanitary quick connector chuck
Probe Material	FTFE
Chuck Material	SUS304
Explosion Proof	Exia II CT6 Ga

Dimensions and Drawings



Electrical Connection

Wire Color	Current 2wires	Current 3wires	RS485
Red	Vcc+	Vcc+	Vcc+
Black	Vcc-/Signal+	Vcc-/GND	Vcc-
Yellow	/	Signal+	RS485 A
Green(Blue)	/	/	RS485 B

How to Order

Example Part Number: PWL-CS[600]D10P2T1S2A2M1C1001

Model No.	PWL-CS	PWL-CS
Order Length (mm)	50-2000 mm Directly write range in []	[600]
Probe Diameter (mm)	D10=10mm D16=16mm	D10
Working Pressure	P1=Atmospheric pressure P2=Sealed pressure (-0.1MPa~0.1MPa) P3=Other pressure max 5Mpa	P2
Signal Output	T1=4-20mA(2wires) T2=4-20mA(3wires) T3=RS485(4 wires) T4=HART T0=Customized	T1
Power Supply	S1=12-28VDC S2=24VDC S3=12VDC	S2
Accuracy	A1=-/+0.5%FS A2=-/+0.2%FS by customization	A2
Probe Material	M1=PTFE(Typical) M0=Customized	M1
Process Connection	C1=50.5mm chuck C0=Others	C1
Cable Length	000=None 001= 1m cable 002= 2m cable 003= 3m cable	001