

## SLS3100 Corrosion resistant pressure transmitter liquid level transmitter

### MAIN FEATURES

- PTFE shell, acid and alkali corrosion
- Be used in harsh environments such as strong corrosion
- Reliable sealing, IP68 protection class
- Intrinsically safe explosion-proof



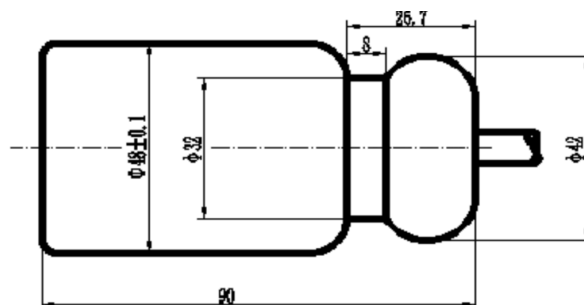
### OVERVIEW

SLS3100 series corrosion-resistant pressure transmitter/liquid level transmitter uses a ceramic capacitor pressure sensor as the sensitive core. After digital circuit correction and signal conditioning, it outputs standard industrial applications and networking signals. Products have been carefully designed, component screening, process validation and curing, fatigue destressing, aging, environmental simulation testing and other processes to ensure that each product is stable and reliable.

### SPECIFICATION

ITEMS	PARAMETER
Range	-0.1MPa...0kPa~10kPa...7MPa, 0~1~5~500mH2O
Overload capability	≤ 2 times full scale
Pressure Type	G (gauge pressure), A (absolute pressure)
Accuracy	0.1% (custom), 0.25% (typical), 0.5% (maximum)
Long-term stability	±0.1%FS/year (typical), ±0.2%FS/year (maximum)
Zero temperature drift	±0.01%FS/°C, ±0.02%FS/°C
Sensitivity temperature drift	±0.01%FS/°C, ±0.02%FS/°C
Compensation temperature	-20°C~65°C, -20°C~80°C
Medium temperature	-30°C~65°C(input type), -40°C~125°C
Power supply	12 ~ 30VDC
Output Signal	4mA~20mA (superimposable HART protocol) 0V~10V (output range can be customized) RS485
Load Resistance	Current type: $\leq (U-12) / 0.02 (\Omega)$
Protection level	IP68

### TYPICAL DIMENSION



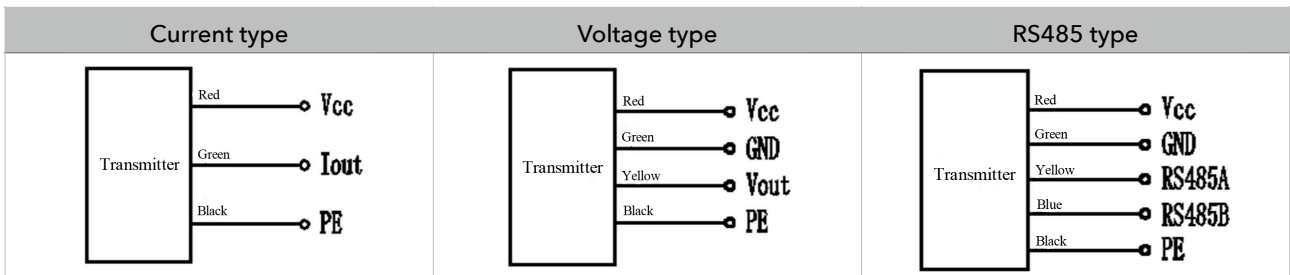
Unit: mm

**MORE RECOMMENDATION**

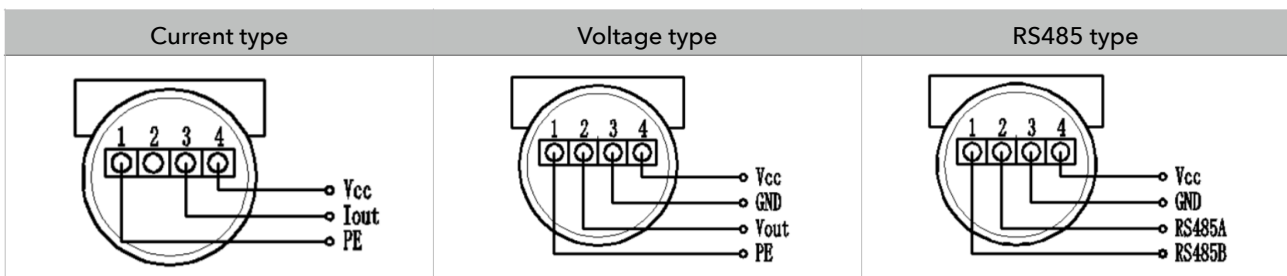
MODEL	FEATURE	OUTLINE CONSTRUCTION
SLS3101 (2.5kPa~200kPa)	1.Threaded joints 2.PTFE shell 3.Ceramic capacitor sensor.	
SLS3102 (2.5kPa~200kPa)	1.Input-type integrated structure 2.PTFE shell 3.Ceramic capacitor sensor.	
SLS3103	1.Input-type integrated shell structure 2.PTFE shell 3.Ceramic capacitor sensor 4.With junction box or digital display 5.A variety of output forms 6.With flange model code SLS3105.	
SLS3106	1.Integrated structure of small form factor input type 2. PTFE shell 3. Ceramic capacitor sensor 4. Current, voltage output optional.	

**ELECTRIC CONNECTION**

• Direct cable connection



• Industrial digital electric connection



**ORDER CODE**

<b>Code:</b>	A	-	B	-	C	-	D	-	E	-	F
<b>Model:</b>	SLS3102	-	5m	-	S	-	P	-	L5	-	MA

Model	Code A
Threaded joints connection type	3101
Input-type integrated shell type	3102
Input-type integrated shell with junction box	3103
Input-type integrated shell with digital display	3104
Input-type integrated shell with digital display and flange	3105
Small form factor input type	3106
<b>Pressure/level Range(X=specific no.)</b>	<b>Code B</b>
-0.1MPa...0kPa~10kPa...7MPa	X MPa
-1Bar ~70Bar	X Bar
-15psi-10000psi	X psi
0~1~5~500mH2O	X mH2O
<b>Accuracy</b>	<b>Code C</b>
0.1% (custom)	C
0.25%(typical)	T
0.5%(standard)	S
<b>Interface material</b>	<b>Code D</b>
Ceramics	C
PTFE	P
Fluororubber	F
Other customized	C

Cable length	Code E
1m	L1
5m	L5
...	...
500m	L500
<b>Output signal</b>	<b>Code F</b>
4mA~20mA (superimposable HART protocol)	MA
0V~10V (output range can be customized)	V1
RS485	RS
More output customized	C

**Remarks:**

1. The materials in contact with the liquid are ceramics, polytetrafluoroethylene and fluororubber, and liquids that are free of corrosion to these three substances can be measured;
2. The cable is a ventilation cable with a snorkel in the center, and the outer skin is protected by injection molding with Teflon. Teflon is easy to scratch, bend and break, and needs careful protection. Otherwise, the outer skin is scratched, and the medium will enter the transmitter through the middle of the cable and cause it to fail.