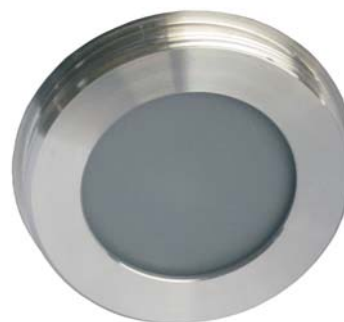




ULB11 Ceramic Capacitive Level Transmitter

Description

ULB11 ceramic capacitive pressure transmitter uses imported dry-type ceramic capacitive sensors as sensing elements, and adopts an integrated stainless steel fully sealed structure. It has good features like strong overload resistance, good corrosion resistance, and reliable performance. It can be widely used in pressure measurement and control areas like petroleum, chemical industry, and power plants, water supply and other industries.



ceramic membrane

Features

- Ceramic capacitive sensors are used, and the materials in contact with the medium are ceramics, stainless steel and fluororubber, so the product has good ability of anti-corrosion.
- Suitable for tiny pressure measurement.
- Strong resistance to pressure impact.
- Strong anti-overload ability, pressure overload up to 10 times.
- Good long-term stability
- PUR, NBR, PE or PTFE cable for options.
- Sensor diaphragm is a basic ceramic material (99.9% pure aluminum oxide material Al_2O_3)
- High-precision pressure measurement with good temperature stability

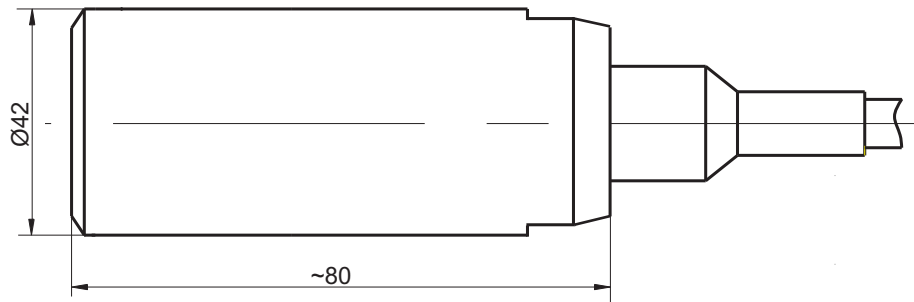
Specifications

measuring ranges	0~0.3mH ₂ O...200mH ₂ O
overload pressure	1000%FS
output signal	4~20mA, 0~5V, 0~10V, 1~5V
accuracy	0.25%FS, 0.5%FS(standard)
load resistance	$R_L = (U-9V)/0.02A$ (4~20mA current output) U—loop voltage (V)
long-term stability	<0.5%FS/year
supply voltage	9~32VDC
compensated temperature range	-20~80℃
operating temperature range	-40~125℃
temperature coefficient of zero	0.15%FS/10℃
temperature coefficient of span	0.15%FS/10℃
insulation resistance	100MΩ@50VDC
electrical connection	Φ7.2mm shielded cable with vent hose
material of wetted part and housing	316(standard), Hastelloy-C, titanium alloy
material of pressure membrane	ceramic
sealing	fluoro-rubber sealing ring



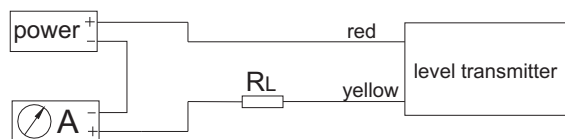
ULB11 Ceramic Capacitive Level Transmitter

Dimensions



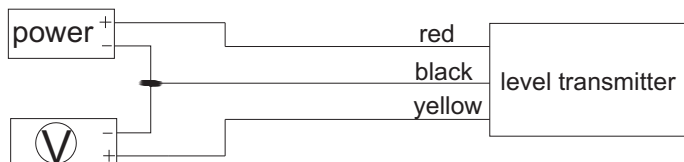
Electrical connection

<u>Connection</u>	<u>Cable color(pin)</u>
Power“+”	Red
Signal“+”	Yellow



Wiring drawing of 2-wire 4~20mA output

<u>Connection</u>	<u>Cable color(pin)</u>
Power“+”	Red
Signal“+”	Yellow
GND	Black



Wiring drawing of 3-wire 0~10V(0~5V, 1~10V, 0.5~4.5V) voltage output



ULB11 Ceramic Capacitive Level Transmitter

Ordering code

ULB11						
		range	measuring range: 0~0.3mH ₂ O...200mH ₂ O			
		(0~XmH ₂ O)L	X: actual measuring range L: cable length, suggested L-X=(1~2)m			
			code	output		
			O1	4~20mA		
			O2	0~20mA		
			O3	0~5V		
			O4	1~5V		
			O5	0~10V		
			Oz	customer request		
				code	accuracy	
				C	0.25%FS	
				D	0.5%FS (standard)	
					code	cable
					C1	PUR (polyurethane) standard
					C2	NBR (nitrile-butadiene rubber)
					C3	PE (polyethylene)
					C4	PTFE (Polytetrafluoroethylene)
						code display(seperated from probe)
					D0	no display
					D1	4-digit LED display
					D2	5-digit LCD display
ULB11	(0~2mH ₂ O)21	O1	C	C1	D0	