

Model PCL

Ceramic Diaphragm Type Corrosion Proof Pressure Transducer

Description

PCL model is suitable for corrosion resistant environment since it uses ceramic pressure cell and Teflon body. Output of 1~5V or 4~20mA(2Wire), it may be interfaced with various controllers.

Features

- ▶ Built-in amplifier circuit(VDC, mA)
- ▶ Measuring range 0~2MPa
- ▶ 0.5%FS accuracy
- ▶ Piezoresistive ceramic cell
- ▶ PP or PVC, ceramic(Al_2O_3) media-wetted materials

Applications

- ▶ Semiconductor Manufacturing Equipment
- ▶ High-purity Fluids
- ▶ Chemical Process
- ▶ Physics and Chemistry Equipment
- ▶ Waste Disposing Equipment



Specifications

Range

0 ~ 100, 200, 500, 700kPa / 1, 2MPa (Gauge)
-100 ~ 0, 100, 200, 500, 700kPa / 1, 2MPa (Gauge)

Performance

Accuracy	$\pm 0.5\% \text{FS(RSS)}$
Thermal Effect on Zero	$\pm 0.06\% \text{FS}/^\circ\text{C}$
Thermal Effect on Span	$\pm 0.06\% \text{FS}/^\circ\text{C}$
Compensated Temperature Range	$-10 \sim 70^\circ\text{C}$
Operating Temperature Range	$-20 \sim 80^\circ\text{C}$

Electrical

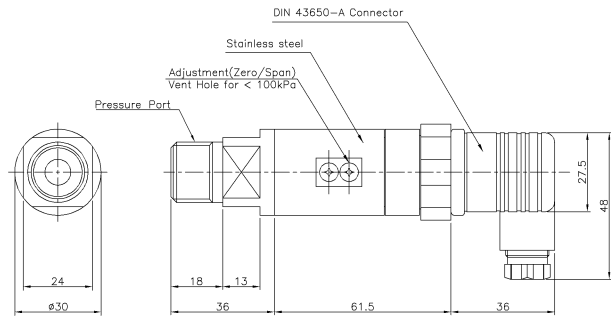
Excitation	11 ~ 28VDC
Output	0~5VDC, 1~5VDC, 0~10VDC, 4~20mA(2, 3Wire)
Electrical Connection	Din Connector

Physical

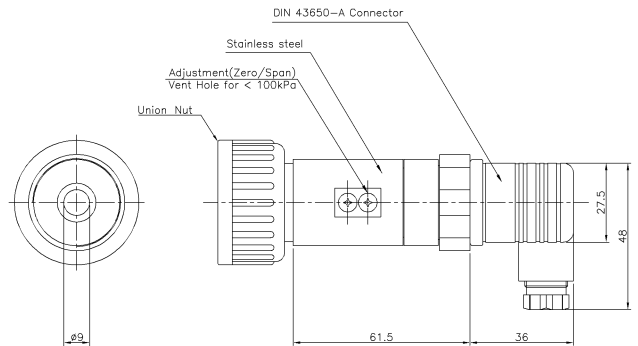
Proof Pressure	150%FS Max.
Burst Pressure	200%FS Min.
Vibration	$49.1 \text{m/s}^2\{5\text{G}\}$, 10~500Hz
Shock	$490 \text{m/s}^2\{50\text{G}\}$
Pressure port	R(PT)1/2", G(PF)1/2", Union
Media-Wetted Materials	PP or PVC, Ceramic(Al_2O_3 96%), VITON
Weight	Approx. 200g (Sensor Only)

Dimension

Thread Type



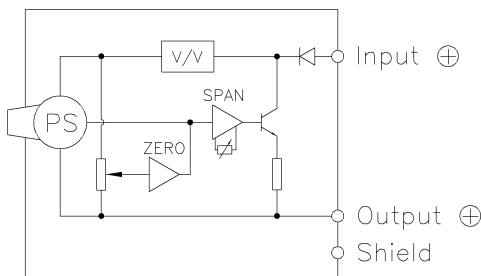
Union Type



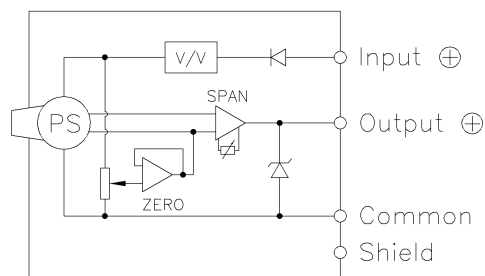
Pin No.	Connections	
	3Wire	2Wire
1	Input $\oplus$	Input $\oplus$
2	Common $\ominus$	Output $\oplus$
3	Output $\oplus$	×
$\oplus$	Earth	Earth

Internal Circuit Diagram

2Wire mA Output Type



3, 4Wire mA, VDC Output Type



Ordering Information

Model Name		PCL	E	0100	R	E	I	A	Option	
Output		B : 4Wire 0~5V		G : 3Wire 4~20mA		C : 3Wire 0~5V		H : 2Wire 4~20mA		Connecting Methods
		D : 4Wire 1~5V		J : 3Wire 0~10V		E : 3Wire 1~5V		K : 4Wire 0~10V		Pressure port
		F : 4Wire 4~20mA								E : R(PT)1/2" Q : G(PF)1/2"
										P : Union
Pressure Range		XXXX : Pressure		CXXX : Compound Pressure						Pressure Unit
										R : kPa M : MPa
										B : bar K : kgf/cm ²
										P : psi H : mmHg
										C : cmH ₂ O