Model PCL/내부식용 세라믹 다이아프램 압력센서

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 0~1MPa
- 0.5%FS accuracy
- Piezoresistive ceramic cell
- PP or PVC, ceramic(Al_2O_3) media-wetted materials

Applications

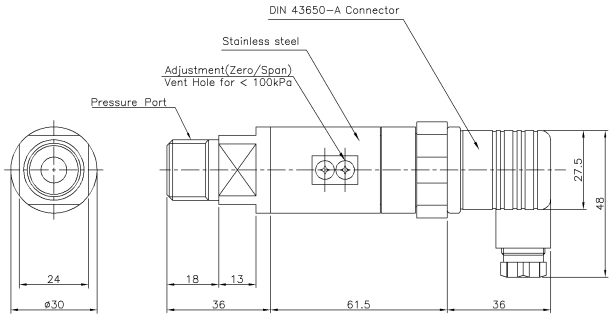
- Semiconductor Manufacturing Equipment
- High-purity Fluids
- Chemical Process
- Physics and Chemistry Equipment
- Waste Disposing Equipment

Specifications

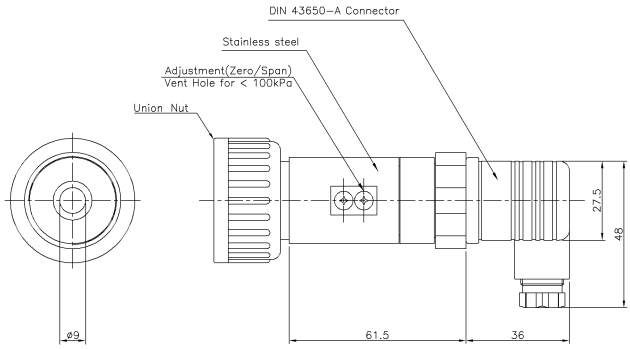
Range	
	0 ~ 100kPa ... 1MPa (Gauge)
Performance	
Accuracy	±0.5%FS(RSS)
Thermal Effect on Zero	±0.06%FS/℃
Thermal Effect on Span	±0.06%FS/℃
Compensated Temperature Range	-10 ~ 70℃
Operating Temperature Range	-20 ~ 80℃
Electrical	
Excitation	11 ~ 28VDC
Output	0~5VDC, 1~5VDC, 0~10VDC, 4~20mA(2, 3Wire)
Electrical Connection	DIN Connector
Physical	
Proof Pressure	150%FS Max.
Burst Pressure	200%FS Min.
Vibration	49.1m/s^2{5G}, 10~500Hz
Shock	490m/s^2{50G}
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



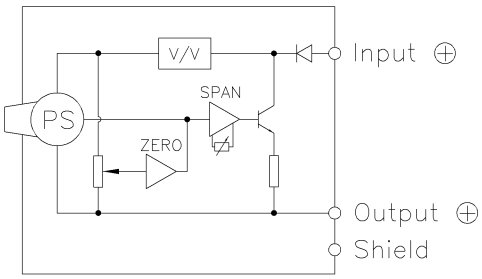
▶ Union Type



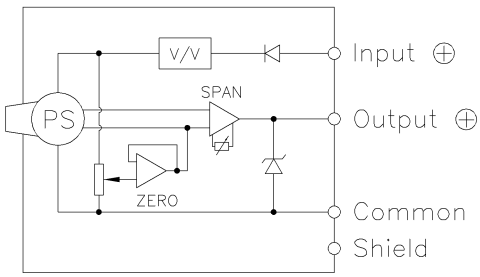
Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common⊖	Output ⊕
3	Output ⊕	×
⏚	Earth	Earth

Internal Circuit Diagram

▶ 2Wire mA Output Type



▶ 3, 4Wire mA, VDC Output Type



Ordering Information

PCL E 0100 R E I A

Model Name

Output

B : 4Wire 0~5V
C : 3Wire 0~5V
D : 4Wire 1~5V
E : 3Wire 1~5V
F : 4Wire 4~20mA
G : 3Wire 4~20mA
H : 2Wire 4~20mA
J : 3Wire 0~10V
K : 4Wire 0~10V

Pressure Range

XXXX : Pressure
CXXX : Compound Pressure

Pressure Unit

R : kPa
B : bar
P : psi
C : cmH_2O
M : MPa
K : kgf/㎠
H : mmHg

Pressure port

E : R(PT)1/2"
Q : G(PF)1/2"
P : Union

Connecting Methods

I : DIN 43650-A connector

Option

A : Normal

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