

Model PSH

High Performance Pressure Transducer

Description

PSH model is high precise and its media-wetted materials are composed of stainless steel 316L, having excellent corrosion-resistant properties. It is applied to precise measurement and builds an inner amplifier to interface with various kinds of controllers.

Features

- ▶ CE Certified
- ▶ VDC, mA output
- ▶ Measuring range 0~35MPa
- ▶ 0.15%FS accuracy
- ▶ Gauge and absolute measurement
- ▶ Piezoresistive silicon cell
- ▶ Stainless steel(316L) media-wetted materials

Applications

- ▶ Process control
- ▶ Hydraulics & Pneumatic
- ▶ Compressor Control
- ▶ Chillers
- ▶ Refrigeration Equipment

Specifications



Range

0 ~ 5, 10, 20, 30, 50, 100, 200, 300, 500, 700kPa / 2, 3.5, 7, 20, 35MPa(Gauge)
-100 ~ 0 , 30, 50, 100, 200, 300, 500, 700kPa (Gauge)
0 ~ 100, 200, 300, 500, 700kPa / 2, 3.5, 7, 20, 35MPa (Absolute)

Performance

Accuracy	±0.15%FS(RSS)
Thermal Effect on Zero	±0.03%FS/°C
Thermal Effect on Span	±0.03%FS/°C
Compensated Temperature Range	-10 ~ 70°C
Operating Temperature Range	-20 ~ 80°C

Electrical

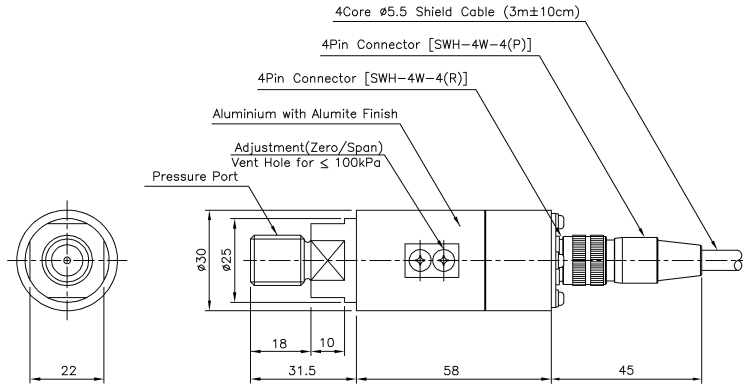
Excitation	11 ~ 28VDC
Output	0~5VDC, 1~5VDC, 0~10VDC(3, 4Wire) 4~20mA(2, 3 Wire)
Electrical Connection	Connector, Head, Din Connector

Physical

Proof Pressure	300%FS Max.
Burst Pressure	500%FS Min.
Vibration	49.1m/s ² {5G}, 10~500Hz
Shock	490m/s ² {50G}
Pressure port	R(PT)1/8", G(PF)1/8", R(PT)1/4", G(PF)1/4", R(PT)3/8", G(PF)3/8"
Media-Wetted Materials	Stainless Steel 316L, Viton
Weight	Connector type : Approx. 140g (Sensor Only)

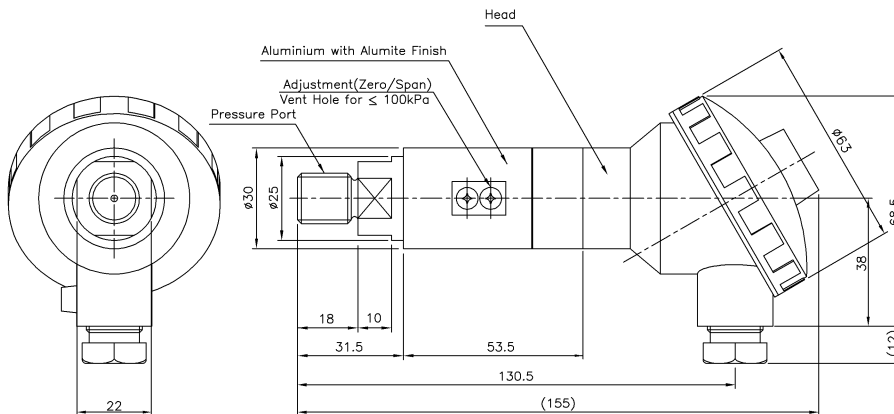
Dimension

► Connector Type



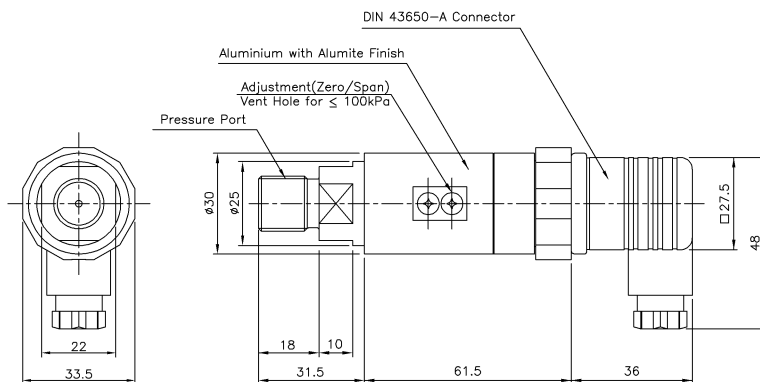
Pin No.	Wire Color	Connections		
		4Wire	3Wire	2Wire
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common ⊖	×
3	Black	Input ⊖	×	Output ⊕
4	Green	Output ⊕	Output ⊕	×
5	Shield	Earth	Earth	Earth

► Head Type



No.	Connections
	2Wire
+	Input ⊕
⊕	Earth
-	Output ⊕

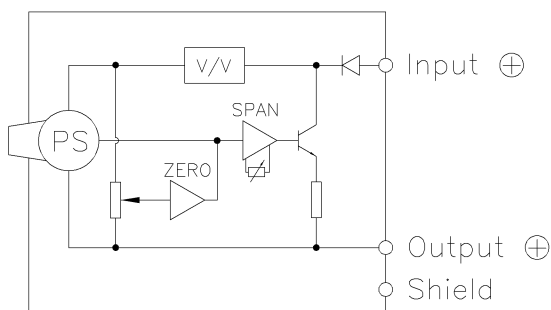
► Din connector Type



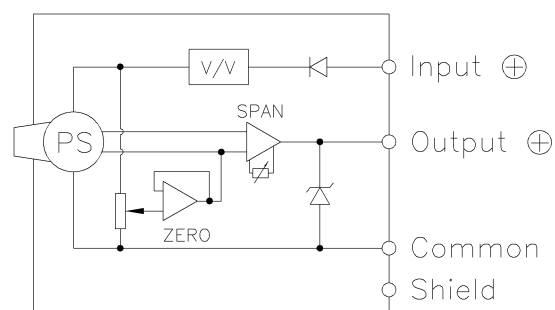
Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common ⊖	Output ⊕
3	Output ⊕	×
⊕	Earth	Earth

Internal Circuit Diagram

► 2Wire mA Output Type



► 3, 4Wire mA, VDC Output Type



Ordering Information

		<u>PSH</u>	<u>B</u>	<u>0100</u>	<u>R</u>	<u>A</u>	<u>P</u>	<u>G</u>		
Model Name								Type of Pressure Measurement		
								G : Gauge		
								J : Absolute		
Output								Connecting Methods		
B : 4Wire 0~5V		G : 3Wire 4~20mA						P : Connector		
C : 3Wire 0~5V		H : 2Wire 4~20mA						H : Head		
D : 4Wire 1~5V		J : 3Wire 0~10V						I : Din 43650—A connector		
E : 3Wire 1~5V		K : 4Wire 0~10V								
F : 4Wire 4~20mA										
Pressure Range								Pressure port		
XXXX : Pressure								A : R(PT)3/8"		
CXXX : Compound Pressure								D : G(PF)1/4"		
								B : G(PF)3/8"		
								G : R(PT)1/8"		
								C : R(PT)1/4"		
								H : G(PF)1/8"		
								Pressure Unit		
								R : kPa		
								M : MPa		
								B : bar		
								K : kgf/cm ²		
								P : psi		
								H : mmHg		
								C : cmH ₂ O		