

Model PSH(Flush Diaphragm)

High Performance Pressure Transducer

Description

PSH(Flush Diaphragm) model is designed as a flush diaphragm suitable for sanitary use and is high precise for tank levels. Media-wetted materials there are composed by stainless steel 316L to have superior 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 0~3.5MPa
- ▶ 0.15%FS accuracy
- ▶ Gauge and absolute measurement
- ▶ Piezoresistive silicon cell
- ▶ Stainless steel(316L) media-wetted materials

Applications

- ▶ Food Process control
- ▶ Water Resource management
- ▶ Sewage Water & Slurry
- ▶ Glues & Resins
- ▶ Oils & Lubricants
- ▶ Cosmetics & Pulps
- ▶ Abrasive Liquids



Specifications

Range

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

0 ~ 100, 200, 300, 500, 700kPa / 2, 3.5MPa (Absolute)

Performance

Accuracy $\pm 0.15\%FS(RSS)$

Thermal Effect on Zero $\pm 0.03\%FS/^{\circ}C$

Thermal Effect on Span $\pm 0.03\%FS/^{\circ}C$

Compensated Temperature Range $-10 \sim 70^{\circ}C$

Operating Temperature Range $-20 \sim 80^{\circ}C$

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 $490m/s^2\{50G\}$

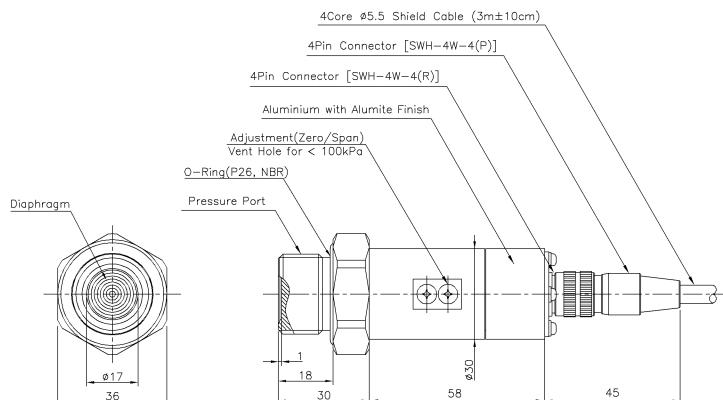
Pressure port R(PT)3/4", G(PF)3/4"

Media-Wetted Materials Stainless Steel 316L, Viton

Weight Connector type : Approx. 180g (Sensor Only)

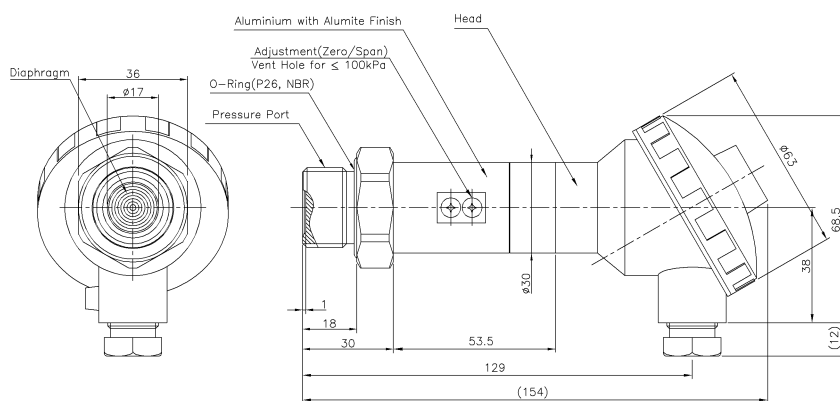
Dimension

► Connector Type



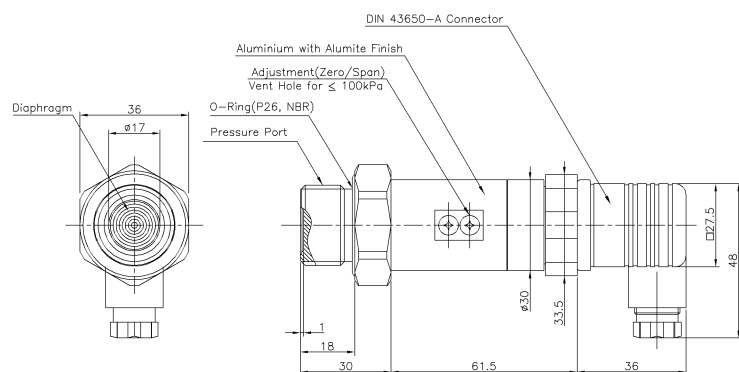
Pin No.	Wire Color	Connections		
		4Wire	3Wire	2Wire
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common ⊖	×
3	Black	Input ⊖	×	Output ⊕
4	Green	Output ⊕	Output ⊕	×
5	Shield	Earth	Earth	Earth

► Head Type



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

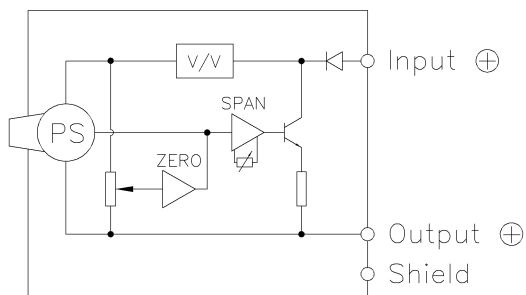
► Din connector Type



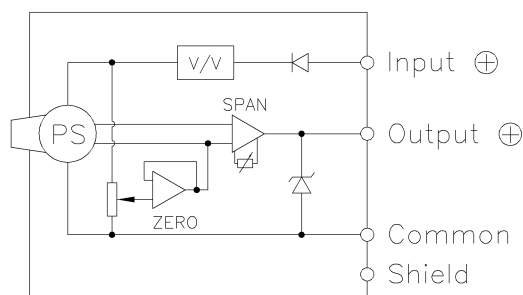
Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common ⊖	Output ⊕
3	Output ⊕	×
⊕	Earth	Earth

Internal Circuit Diagram

► 2Wire mA Output Type



► 3, 4Wire mA, VDC Output Type



Ordering Information

Model Name		P S H B		0005		R I P G		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								W : R(PT)3/4"(Flush Diaphragm) I : G(PF)3/4"(Flush Diaphragm)	
								Pressure Unit	
								R : kPa M : MPa B : bar K : kgf/cm ² P : psi H : mmHg C : cmH ₂ O	