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

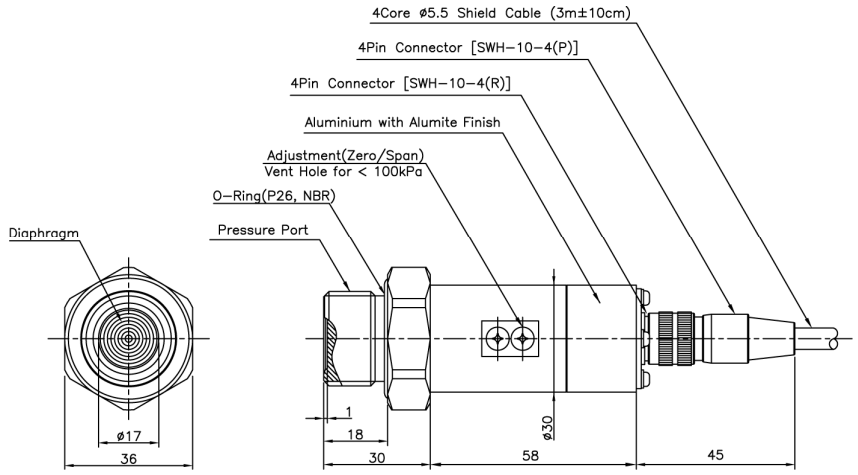
- Food Process control
- Water Resource management
- Sewage Water & Slurry
- Glues & Resins
- Oils & Lubricants
- Cosmetics & Pulps
- Abrasive Liquids

Specifications

Range	
	0 ~ 5kPa ... 3.5MPa(Gauge)
	-100kPa ~ 0 ... 3.5MPa (Gauge)
	0 ~ 35kPa ... 3.5MPa (Absolute)
Performance	
Accuracy	±0.15%FS(RSS)
Thermal Effect on Zero	±0.03%FS/℃
Thermal Effect on Span	±0.03%FS/℃
Compensated Temperature Range	-10 ~ 70℃
Operating Temperature Range	-20 ~ 80℃
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	X3
Burst Pressure	X4
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)

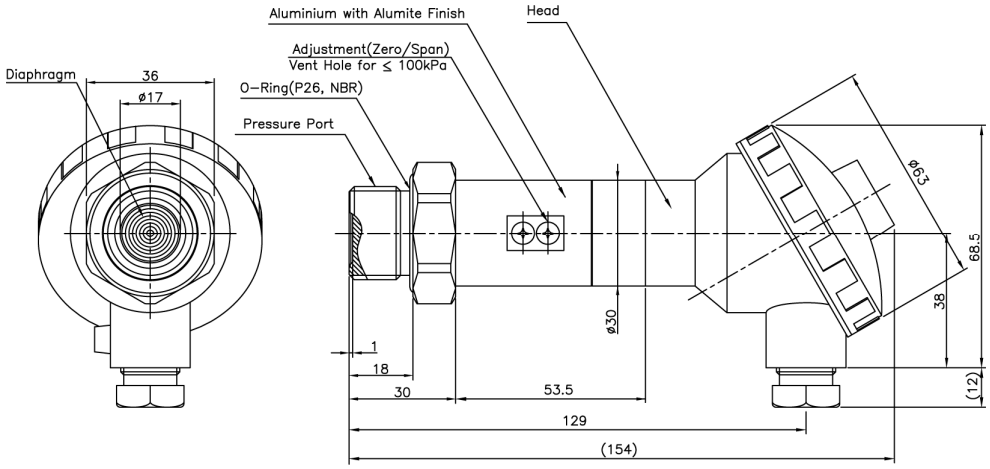
Dimension

▶ Connector Type



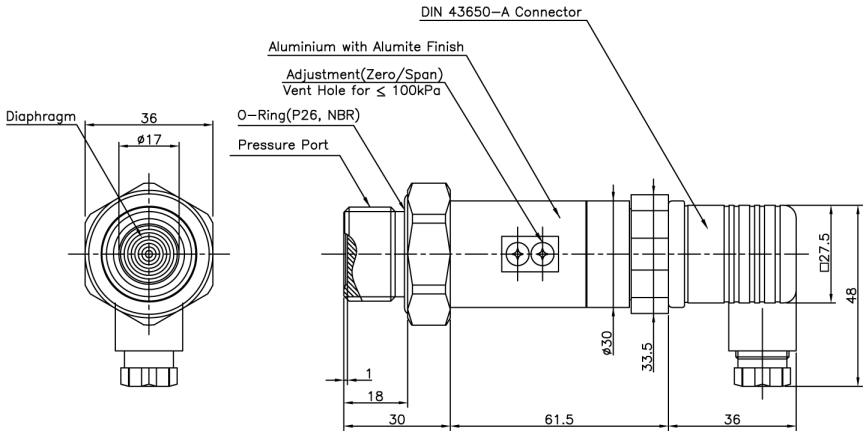
Pin No.	Wire Color	Connections		
		4Wire	3Wire	2Wire
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common⊖	×
3	Black	Input ⊖	×	Output ⊕
4	Green	Output ⊕	Output ⊕	×
5	Shield	Earth	Earth	Earth

▶ Head Type



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

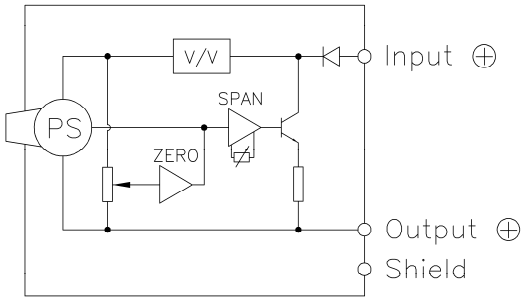
▶ Din connector Type



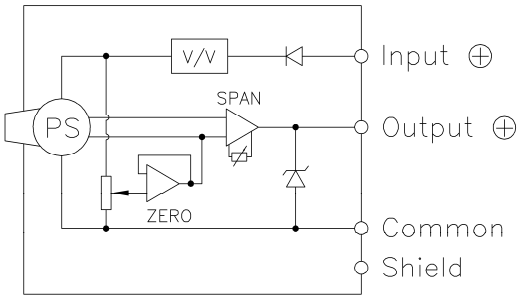
Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common⊖	Output ⊕
3	Output ⊕	×
⏚	Earth	Earth

Internal Circuit Diagram

▶ 2Wire mA Output Type



▶ 3, 4Wire mA, VDC Output Type



Ordering Information

PSH B 0005 R I P G

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

Type of Pressure Measurement

G : Gauge
J : Absolute

Connecting Methods

P : Connector
H : Head
I : Din 43650-A connector

Pressure port

W : R(PT)3/4"(Flush Diaphragm)
I : G(PF)3/4"(Flush Diaphragm)

Pressure Unit

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

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· Specifications are subject to change without notice.