

# Model PSC

Car, Building Purpose High Performance Pressure Transducer

## Description

PSC is compact size to vehicles and heavy machinery. It is also suitable for low pressure measurement and precise measurement. It builds an amplifier to interface with various kinds of controllers.

## Features

- ▶ CE Certified
- ▶ VDC, mA output
- ▶ Measuring range 0~70MPa
- ▶ 0.25%FS accuracy
- ▶ IP55 protection(Cable type)
- ▶ Gauge and absolute measurement
- ▶ Piezoresistive silicon cell
- ▶ Stainless steel media-wetted materials

## Applications

- ▶ Off road equipment
- ▶ Hydraulics & Pneumatic
- ▶ Compressor control
- ▶ Industrial engines
- ▶ Pump pressure control

## Specifications



### Range

0 ~ 5kPa ... 70MPa(Gauge)  
-100kPa ~ 0 ... 70MPa (Gauge)  
0 ~ 35kPa ... 70MPa (Absolute)

### Performance

Accuracy  $\pm 0.25\%FS(RSS)$   
Thermal Effect on Zero  $\pm 0.05\%FS/^{\circ}C$   
Thermal Effect on Span  $\pm 0.05\%FS/^{\circ}C$   
Compensated Temperature Range  $-10 \sim 70^{\circ}C$   
Operating Temperature Range  $-20 \sim 100^{\circ}C$  (Optional  $-30 \sim 120^{\circ}C$ )

### Electrical

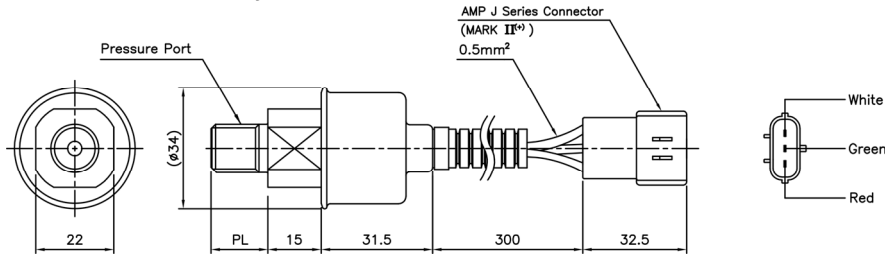
Excitation 11 ~ 28VDC  
Output 0~5VDC, 1~5VDC, 0~10VDC, 4~20mA(2Wire)  
Electrical Connection Connector, Cable, AMP Connector(1~5VDC 3Wire Only), Head, Din Connector

### Physical

Proof Pressure X3 or 140MPa, Whichever is less.  
Burst Pressure X4 or 210MPa, Whichever is less.  
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 304, 316L, VITON  
Weight Approx. 130g (AMP Connector Type)

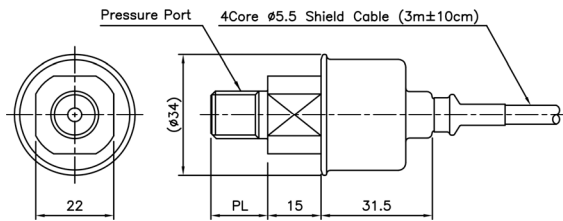
# Dimension

## ▶ AMP Connector Type



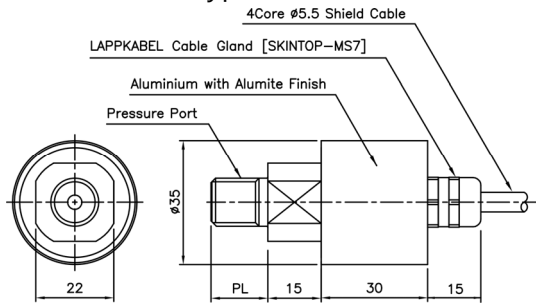
Wire Color	Connections
Red	Input ⊕
White	Common ⊖
Green	Output ⊕

## ▶ Cable Type



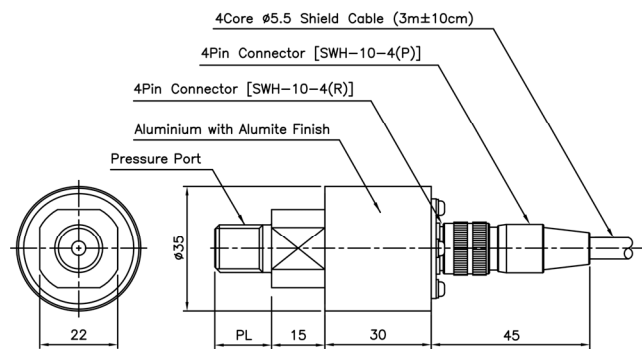
Wire Color	Connections		
	4Wire	3Wire	2Wire
Red	Input ⊕	Input ⊕	Input ⊕
White	Output ⊖	Common ⊖	×
Black	Input ⊖	×	Output ⊕
Green	Output ⊕	Output ⊕	×
Shield	Earth	Earth	Earth

## ▶ Cable Gland Type



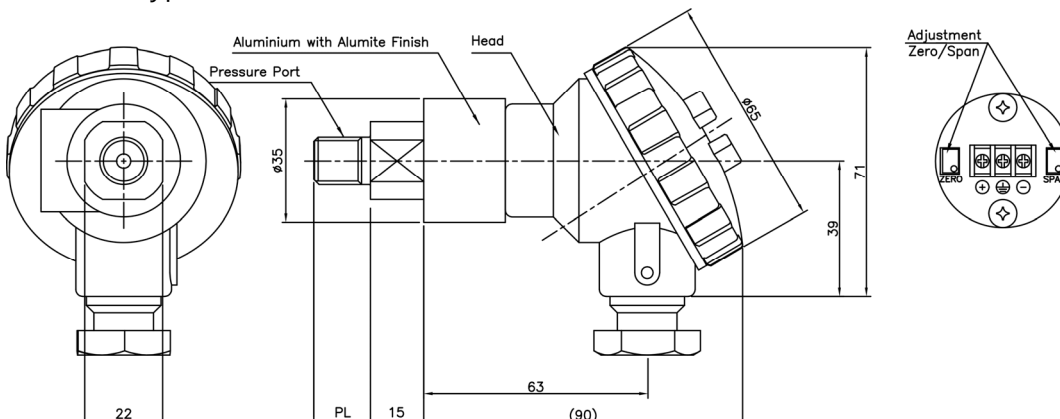
Wire Color	Connections		
	4Wire	3Wire	2Wire
Red	Input ⊕	Input ⊕	Input ⊕
White	Output ⊖	Common ⊖	×
Black	Input ⊖	×	Output ⊕
Green	Output ⊕	Output ⊕	×
Shield	Earth	Earth	Earth

## ▶ Connector Type



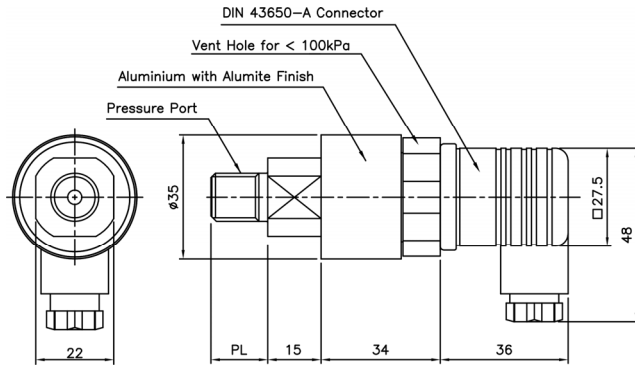
Pin No.	Wire Color	Connections		
		4Wire	3Wire	2Wire
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common ⊖	×
3	Black	Input ⊖	×	Output ⊕
4	Green	Output ⊕	Output ⊕	×
5	Shield	Earth	Earth	Earth

## ▶ Head Type



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

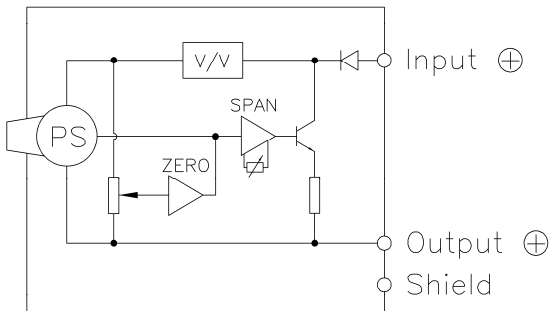
## ► DIN connector Type



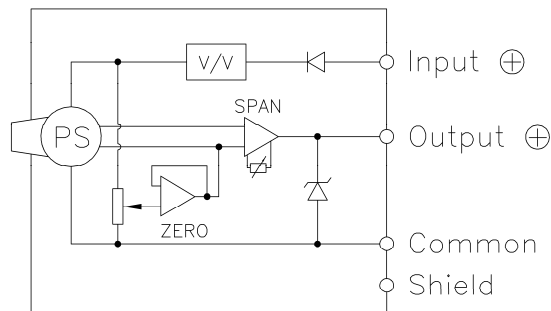
Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common ⊖	Output ⊕
3	Output ⊕	×
⊖	Earth	Earth

## Internal Circuit Diagram

### ► 2Wire mA Output Type



### ► 3, 4Wire mA, VDC Output Type



## Ordering Information

Model Name		Option	
<b>P S C E 0005 R A P G - □</b>		B : Temperature Range -30~120°C	
<b>Output</b>		<b>Type of Pressure Measurement</b>	
B : 4Wire 0~5V	H : 2Wire 4~20mA	G : Gauge	J : Absolute
C : 3Wire 0~5V	J : 3Wire 0~10V	<b>Connecting Methods</b>	
D : 4Wire 1~5V	K : 4Wire 0~10V	P : Connector	C : Cable
E : 3Wire 1~5V		F : AMP Connector	H : Head
<b>Pressure Range</b>		I : Din 43650-A connector	S : Cable Gland
XXXX : Pressure		<b>Pressure port</b>	
CXXX : Compound Pressure		A : R(PT)3/8"	D : G(PF)1/4"
<b>Pressure Unit</b>		B : G(PF)3/8"	G : R(PT)1/8"
R : kPa	M : MPa	C : R(PT)1/4"	H : G(PF)1/8"
B : bar	K : kgf/cm <sup>2</sup>		
P : psi	H : mmHg		
C : cmH <sub>2</sub> O			