



Series QTJ

Zero, Span Adjustable
Low Pressure Transducer



QTJ sensing element is suitable for low pressure measurement below 1MPa by applying the piezoresistive cells. It is applied to non-corrosion gas measurement such as the air, gas at a low cost.

Feature

- Built-in amplifier circuit(VDC, mA)
- Measuring range -100~1000kPa
- 0.5%FS accuracy
- Piezoresistive silicon cell
- Zero, Span Adjustable
- Use with non-corrosive, non-ionic media

Applications

- Gas leak detection
- Gas monitoring
- Gas & Air process control
- Vacuum system

SPECIFICATIONS

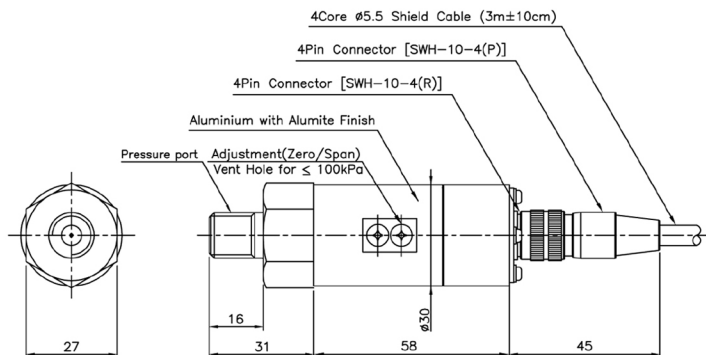
Range	
0 ~ 10 ... 1000kPa (Gauge)	
-100 ~ 0, 10 ... 1000kPa (Gauge)	
Performance	
Accuracy	±0.5%FS(RSS)
Thermal Effect on Zero	±0.06%FS/°C
Thermal Effect on Span	±0.06%FS/°C
Compensated Temperature Range	-10 ~ 70°C
Operating Temperature Range	-20 ~ 80°C
Electrical	
Excitation	11 ~ 28VDC
Output	0~5, 1~5, 0~10VDC, 4~20mA(2, 3Wire)
Electrical Connection	Connector, Cable, Head, 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)1/8", 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 303, SiO ₂ , VITON
Weight	Connector type : Approx. 110g (Sensor Only)

* Specifications are subject to change without notice

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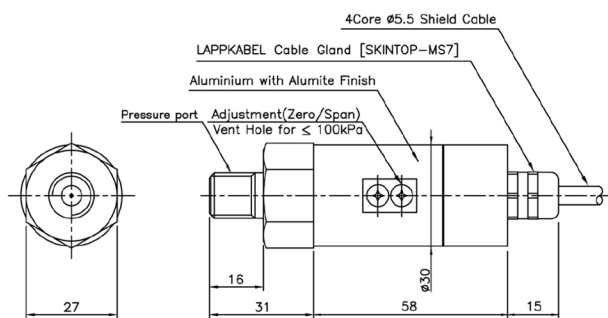
Dimension

► Connector Type



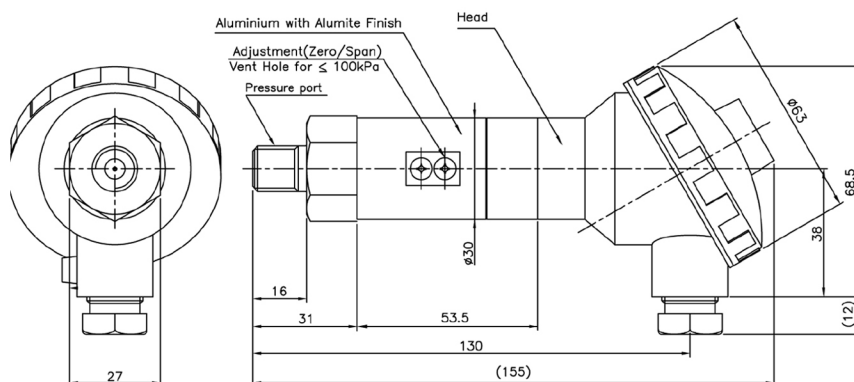
Pin No.	Wire Color	Connections		
		4Wire	3Wire	2Wire
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common ⊖	×
3	Black	Input ⊖	×	Output ⊕
4	Green	Output ⊕	Output ⊕	×
5	Shield	Earth	Earth	Earth

► Cable Gland Type



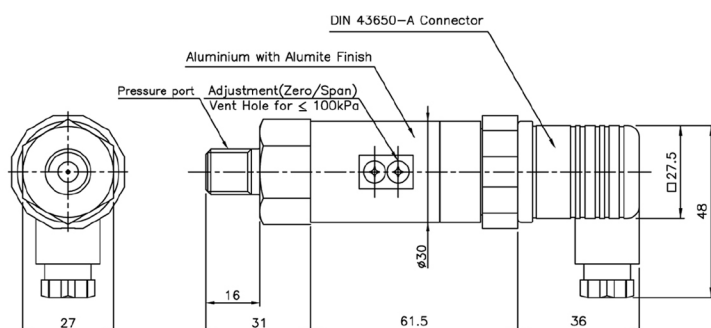
Wire Color	Connections		
	4Wire	3Wire	2Wire
Red	Input ⊕	Input ⊕	Input ⊕
White	Output ⊖	Common ⊖	×
Black	Input ⊖	×	Output ⊕
Green	Output ⊕	Output ⊕	×
Shield	Earth	Earth	Earth

► Head Type



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

► Din Connector Type



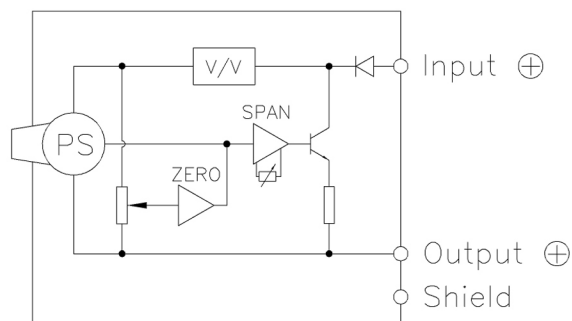
Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common ⊖	Output ⊕
3	Output ⊕	×
⊕	Earth	Earth

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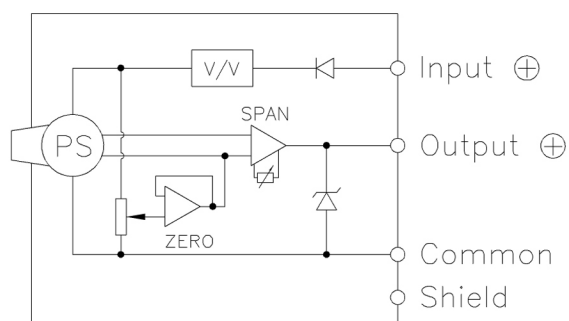
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Internal Circuit Diagram

► 2Wire mA Output Type



► 3, 4Wire mA, VDC Output Type



Ordering Information

Model Name		Q	T	J	E	00	10	R	A	P	A	Option
												A : Normal
Output												Connecting Methods
B : 4Wire 0~5V												
C : 3Wire 0~5V												
D : 4Wire 1~5V												
E : 3Wire 1~5V												
F : 4Wire 4~20mA												Pressure port
G : 3Wire 4~20mA												
H : 2Wire 4~20mA												
J : 3Wire 0~10V												
K : 4Wire 0~10V												Pressure Unit
Pressure Range												
XXXX : Pressure												
CXXX : Compound Pressure												
												Pressure Unit