

Model DWS

Wet / Wet Differential Pressure Transducer

Description

DWS model, it is suitable measuring for high precise measurement and differential pressure. DWS can be against corrosive material owing to Media-Wetted materials are composed stainless steel 316L. DWS strength point is in-amplification circuit, It can be helpful communication of variety controllers.

Features

- ▶ VDC, mA output
- ▶ Measuring range 0~3.5MPa diff.
- ▶ 0.25%FS accuracy
- ▶ IP65 protection(DIN Connector type)
- ▶ Differential Pressure measurement
- ▶ Piezoresistive silicon cell
- ▶ Stainless steel media-wetted materials

Applications

- ▶ Corrosive Fluid and Gas Measurement Systems
- ▶ Liquid Level Controls
- ▶ Tank Level Measurement
- ▶ Leak Tester System



Specifications

Range

0~20, 30, 50, 100, 200, 300, 500, 700kPa / 1, 2, 3.5 MPa

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	$-20 \sim 80^{\circ}C$

Electrical

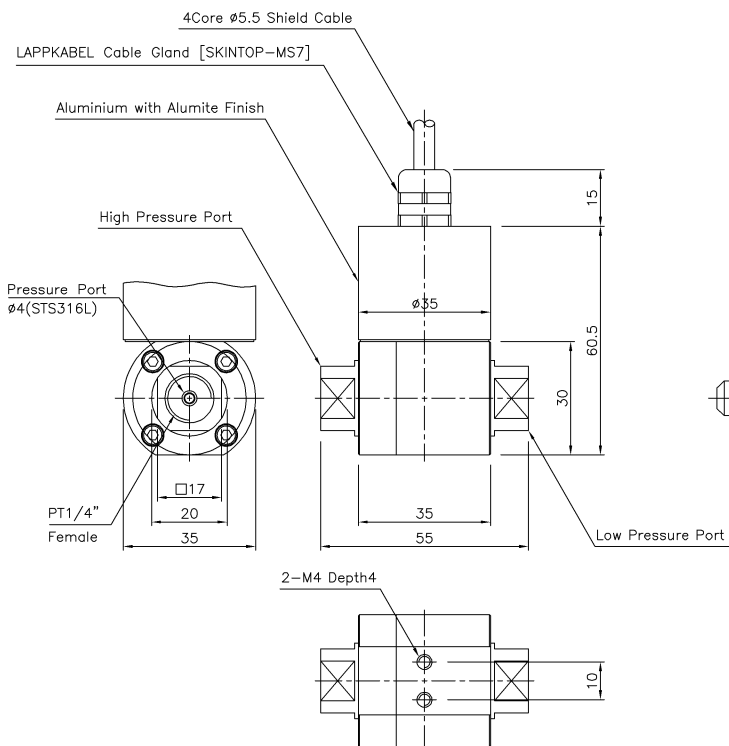
Excitation	11 ~ 28VDC
Output	0~5VDC, 1~5VDC, 0~10VDC, 4~20mA(2Wire)
Electrical Connection	Cable Gland, Connector, Head, Din Connector

Physical

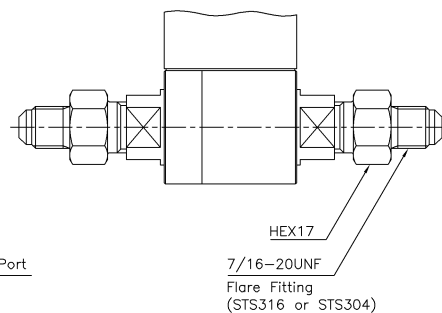
Proof Pressure	300%FS Max. (For Low-Port, Not to exceed 1MPa on all range)
Line(Common Mode) Pressure	7MPa
Vibration	49.1m/s ² {5G}, 10~500Hz
Shock	490m/s ² {50G}
Pressure port	R(PT)1/4"(F), UNF 7/16(Flare Fitting)
Media-Wetted Materials	Stainless Steel 316L, VITON
Weight	Approx. 315g (Connector Type)

Dimension

► Cable Gland Type

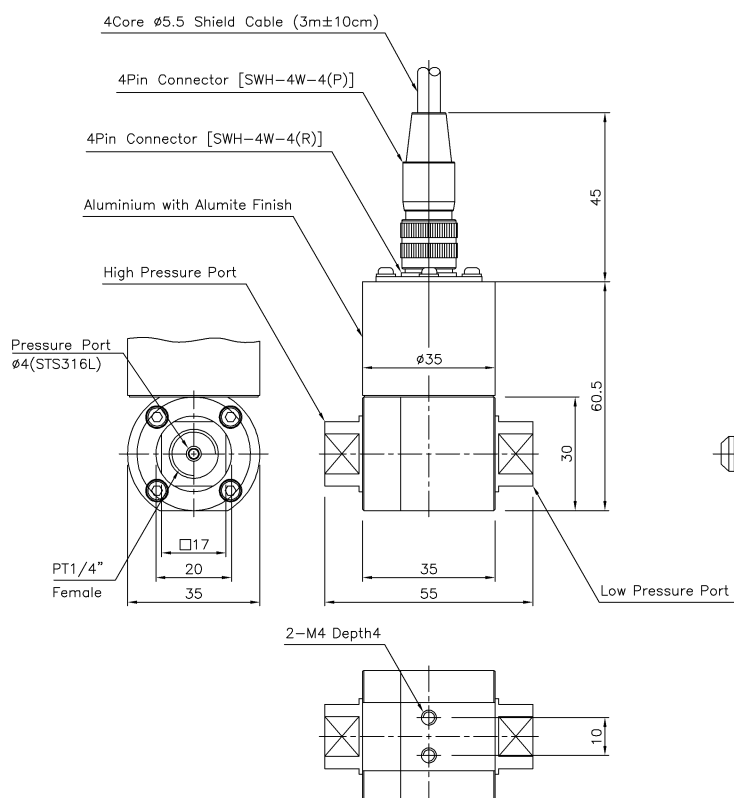


Wire Color	Connections		
	4Wire	3Wire	2Wire
Red	Input ⊕	Input ⊕	Input ⊕
White	Output ⊖	Common ⊖	×
Black	Input ⊖	×	Output ⊕
Green	Output ⊕	Output ⊕	×
Shield	Earth	Earth	Earth

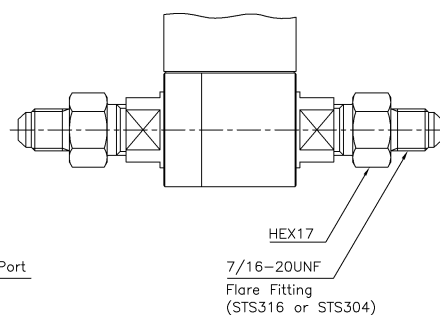


Flare Fitting (Optional)

► Connector Type

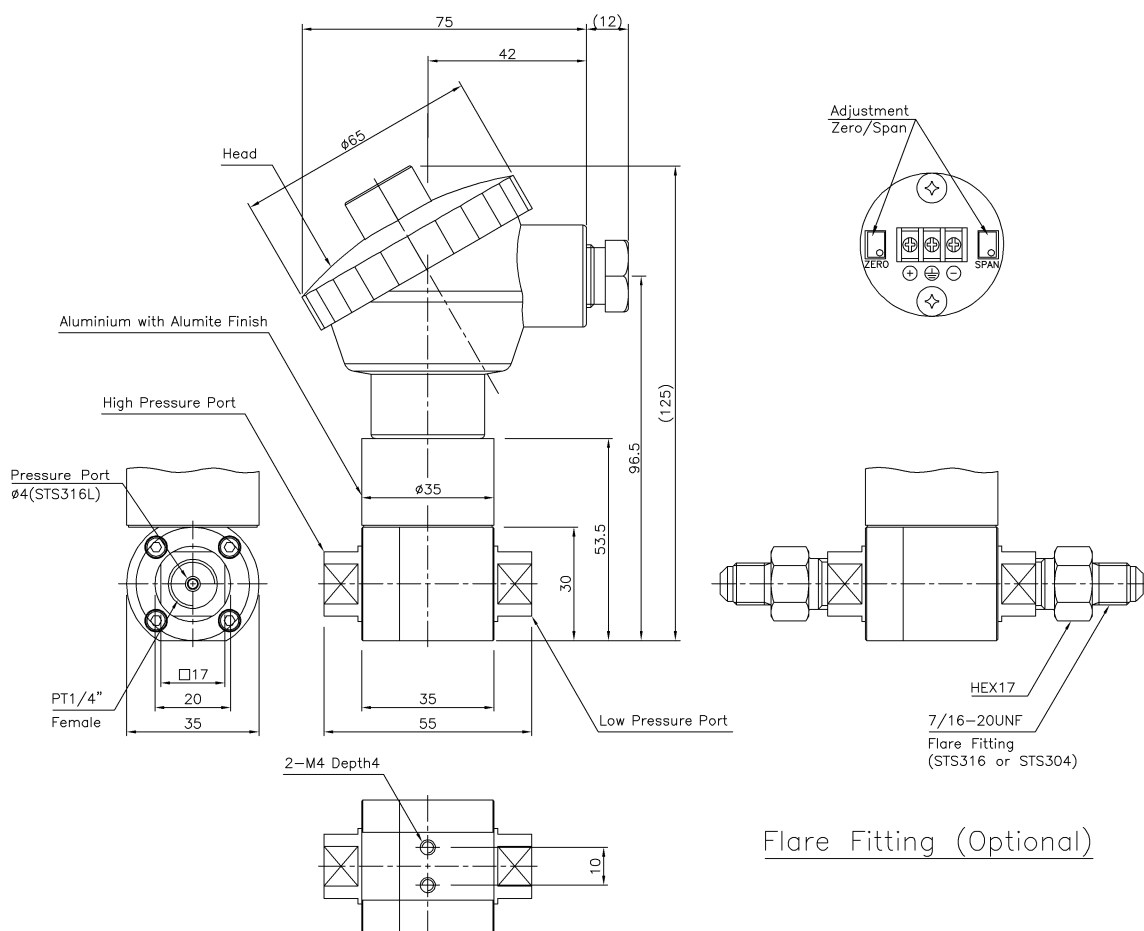


Pin No.	Wire Color	Connections		
		4Wire	3Wire	2Wire
1	Red	Input ⊕	Input ⊕	Input ⊕
2	White	Output ⊖	Common ⊖	×
3	Black	Input ⊖	×	Output ⊕
4	Green	Output ⊕	Output ⊕	×
5	Shield	Earth	Earth	Earth



Flare Fitting (Optional)

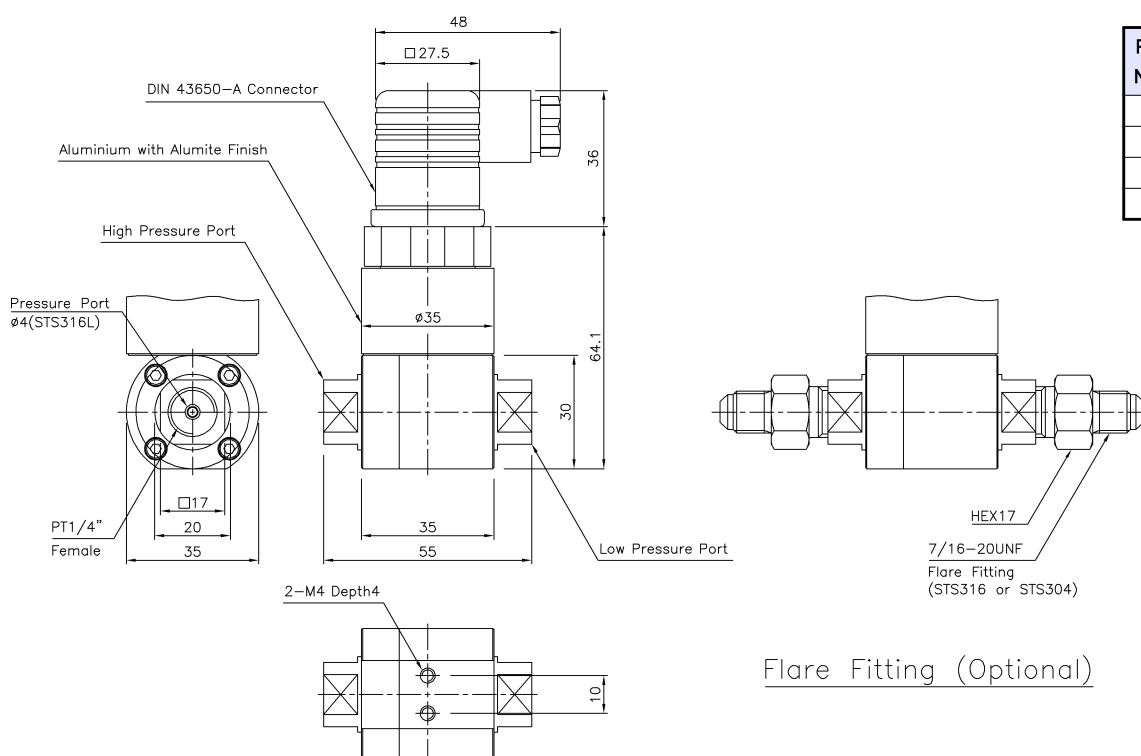
► Head Type



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

Flare Fitting (Optional)

► Din connector Type

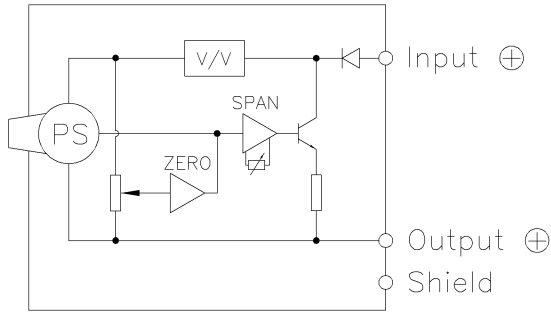


Pin No.	Connections	
	3Wire	2Wire
1	Input ⊕	Input ⊕
2	Common ⊖	Output ⊕
3	Output ⊕	×
⊕	Earth	Earth

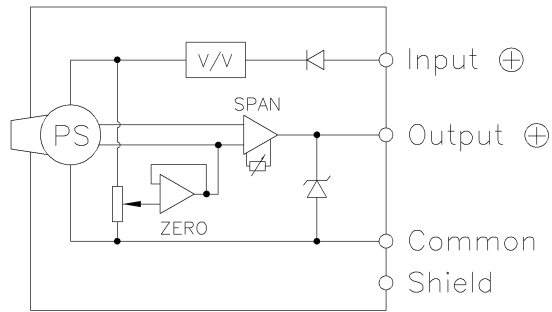
Flare Fitting (Optional)

Internal Circuit Diagram

► 2Wire mA Output Type



► 3, 4Wire mA, VDC Output Type



Ordering Information

Model Name		DWS	H	0020	R	1	P	A	Option	
Output		B : 4Wire 0~5V		H : 2Wire 4~20mA						A : Normal
		C : 3Wire 0~5V		J : 3Wire 0~10V						
		D : 4Wire 1~5V		K : 4Wire 0~10V						
		E : 3Wire 1~5V								
Pressure Range		XXXX : Pressure								
Pressure Unit		K : kgf/cm ²		B : bar						
		P : psi		M : MPa						
		R : kPa		C : cmH ₂ O						
		H : mmHg								