

SPECIFICATION

1. Mechanical:

- Capacity: 0-2K, 5K, 8K, 10K, 15KPSI, differential pressure;
- Proof Pressure: 150% to 180% of rated range;
- Pressure Media: Any compatible with alloy Inconel® 718 solution annealed and aged to a minimum hardness of HRC40;
- Background Pressure Media: Mobil HVI 26 oil or 2-methyl silicon oil, prefer the later;
- Line pressure: Up to 20,000PSI;
- Weight: 28g nominal ;
- Recommended installation torque: (6~8)Nm;

2. Electrical:

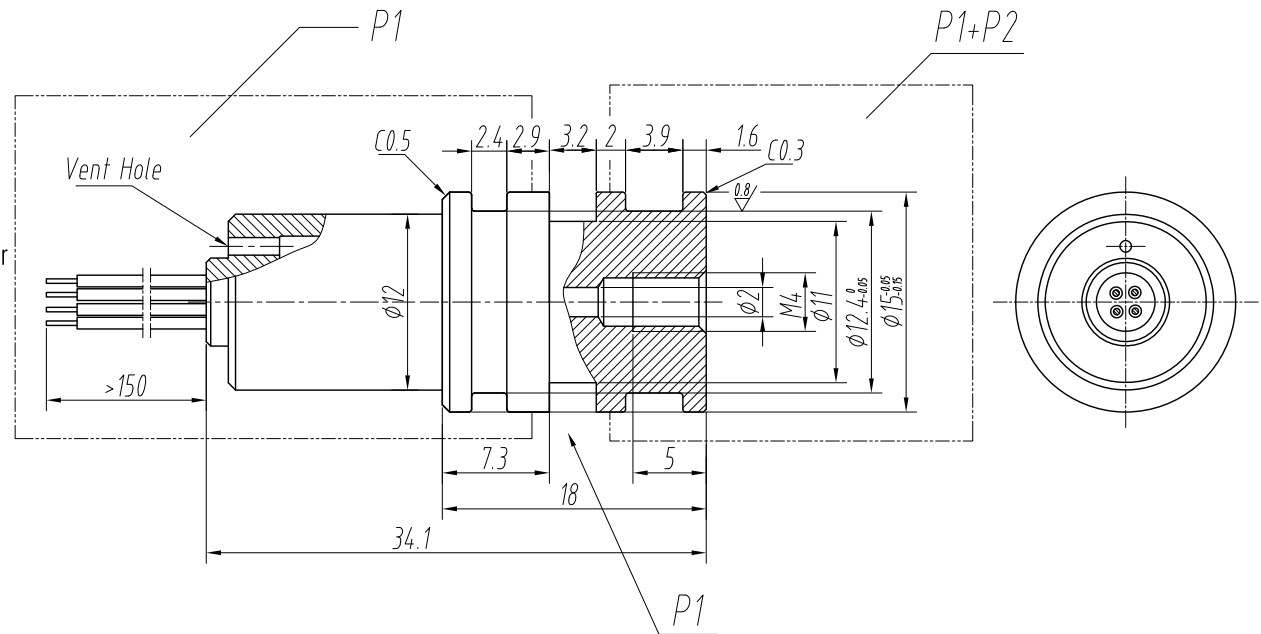
- Excitation: 5VDC;
- Bridge resistance: 1.5K Ω to 4.5K Ω ;
- Output at zero pressure: $\pm 2\%$ FSO ;
- Full scale (F.S.) sensitivity: (4 ± 1) mV/V, Customizable, 5.5mV/V, Max;
- Electrical Connections: Red = + Excitation, Green = + Signal, White = - Signal, Black = - Excitation
- Insulation resistance: All conductors together to case, $\geq 1000M\Omega @ 100VDC$ & +25°C;

3. Accuracy:

- Accuracy: 0.05%FSO^[Note1];
- Non-Linearity: 0.05%FSO (Best Fit Straight Line Method);
- Non-Repeatability: $\pm 0.025\%$ FSO;
- Hysteresis error: 0.025%FSO;
- Long-term stability: $\pm 0.1\%$ FSO;

4. Environmental

- Working temperature range: -55°C to 218°C;
- Thermo drift of zero: $\pm 0.015\%$ FSO Per °C;
- Thermo drift of sensitivity: +0.025%FSO Per °C.
- Error due to combined effect of shock, vibration and acceleration shall be less than 0.01% of F.S.O. per g.
- Vibration: 20g(RMS), 10Hz to 200Hz;
- Shock: 500g@1mS, half-sine acceleration;



P1: Line pressure, 20000PSI max
P2: Differential pressure that produces outputs.

Note1. Accuracies stated are expected for best-fit straight line for all errors, including linearity, hysteresis & non-repeatability thru zero.

NOTICE

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OR TRADE SECRET OF OUR FIRM. DO NOT DISCLOSE, USE OR REPRODUCE WITHOUT THE PRIOR WRITTEN PERMISSION FROM US.

UNLESS OTHERWISE SPECIFIED
TOLERANCE UNLESS NOTED:
X. ± 0.3
.X ± 0.2
.XX ± 0.1
ANGLES: $\pm 0.5^\circ$
3.2/
FINISH ALL SURFACES
DEBURR

BREAK ALL SHARP EDGES
CONCENTRICITY OF DIAS WITH
COMMON C.L.
DIMENSIONS ARE IN MM UNLESS
OTHERWISE SPECIFIED
OTHER ENTERPRISE STANDARDS
MAY APPLY

		BY	DATE	HYDRAULIC Beijing HaiZhuoLiKang Technology Co., Ltd.			
DRAWN			2024-11-09	Differential Pressure Sensor			
CHECKED							
APPROVED							
WEIGHT		28g		SIZE	DWG NO.	MATERIAL	REV.
FIRST ANGLE PROJECTION				A4	XXXX-DP	Inconel® 718	INIT. REL.
				SCALE	DO NOT SCALE	SHEET: 1 OF 1	