

压阻式压力传感器 Piezoresistive Pressure Sensor

CY-002系列

本系列传感器，用于同1Cr18Ni9Ti和316不锈钢兼容的流体介质的绝压测量，它采用微机械加工，真空静电封接等工艺制作硅压阻敏感元件，为固态结构，无活动部件，机电一体化，本产品性能稳定，可靠性高，输出直流0.3~4.8V(有限幅功能)。

性能指标

测量范围(KPa): 0~40、50、100、120、200、

300、400、500、600、1000

工作温度范围: -40~+60℃

常温精度: 1%(含非线性, 迟滞误差, 重复性误差)

年稳定性: 0.2%

过载能力: 1.2倍满测量范围

加速度: 15g 三向

运输: 三级公路 1500Km 40Km/h

低气压: 5X10⁻⁵~1.3X10Pa

湿热: 见图1

The sensors is used to measure absolute pressure of fluid medium that compatible with 1 cr18ni9ti and 316 stainless steel. it adopts the mechanical processing, vacuum electrostatic sealing process to produce silicon piezoresistive sensor with solid state structure, no moving parts and mechanotronics. This product have stable performance, high reliability, the output from 0.3 V to 4.8 V D.C (Limited amplitude).

Performance Index

Measurement range(KPa): 0~40、50、100、120、200、300、400、500、600、1000

Working temperature: -40~+60℃

Accuracy: 1%(With nonlinear , hysteresis error, repeatability error)

Yealy stability: 0.2%

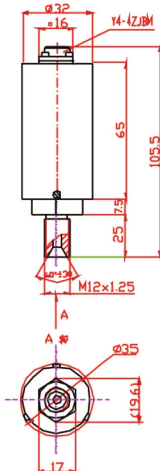
Overload capacity: 1.2 times of the full measurement range

Accelerated speed: 15g three-dimension

Transportation: tertiary highways: 1500Km 40Km/h

Low air pressure: 5X10⁻⁵~1.3X10Pa

Humidity: figure 1



Y4-4ZJBM 接点分配 Contact distribution

1	2	3	4
+15V	输出 output	信号地 signal earthing	-15V

