

CY-092 ,CY-093型系列压力传感器

CY-092 ,CY-093 Pressure Sensor

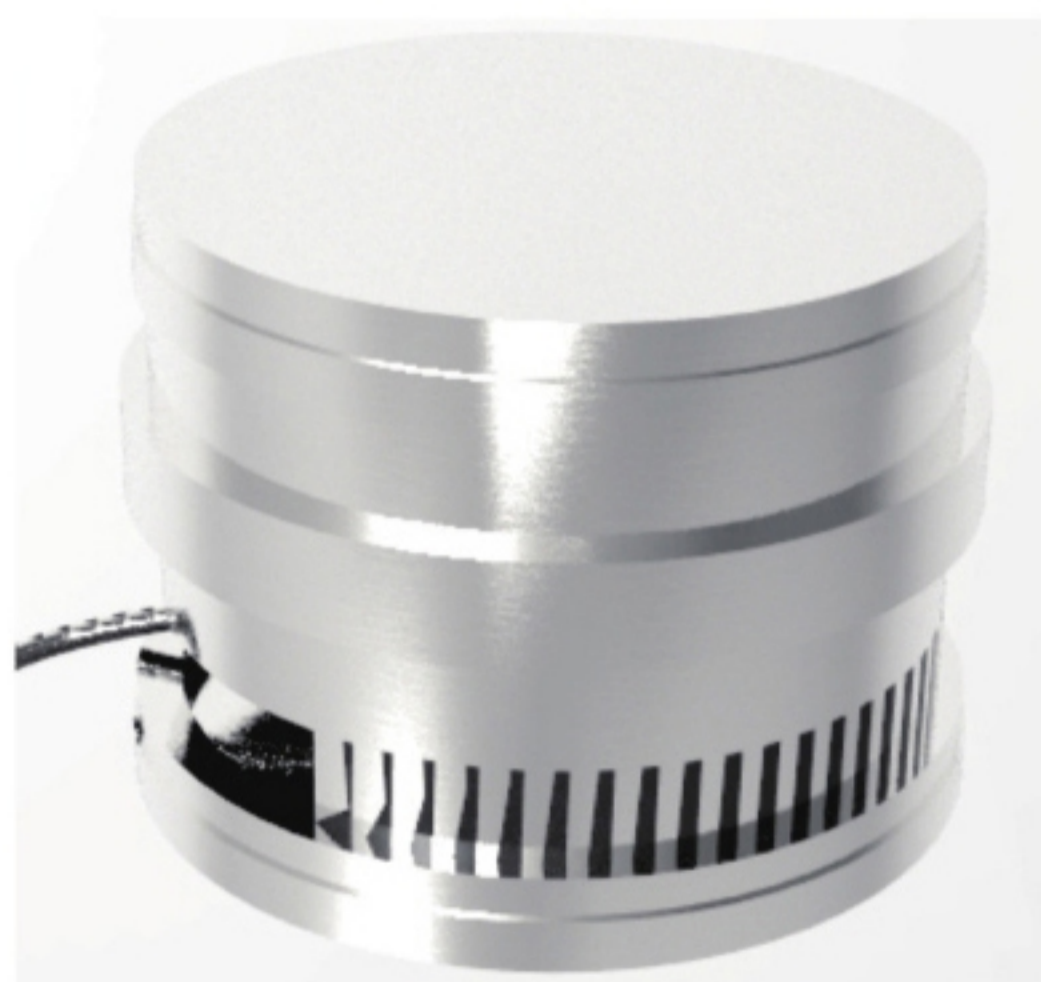
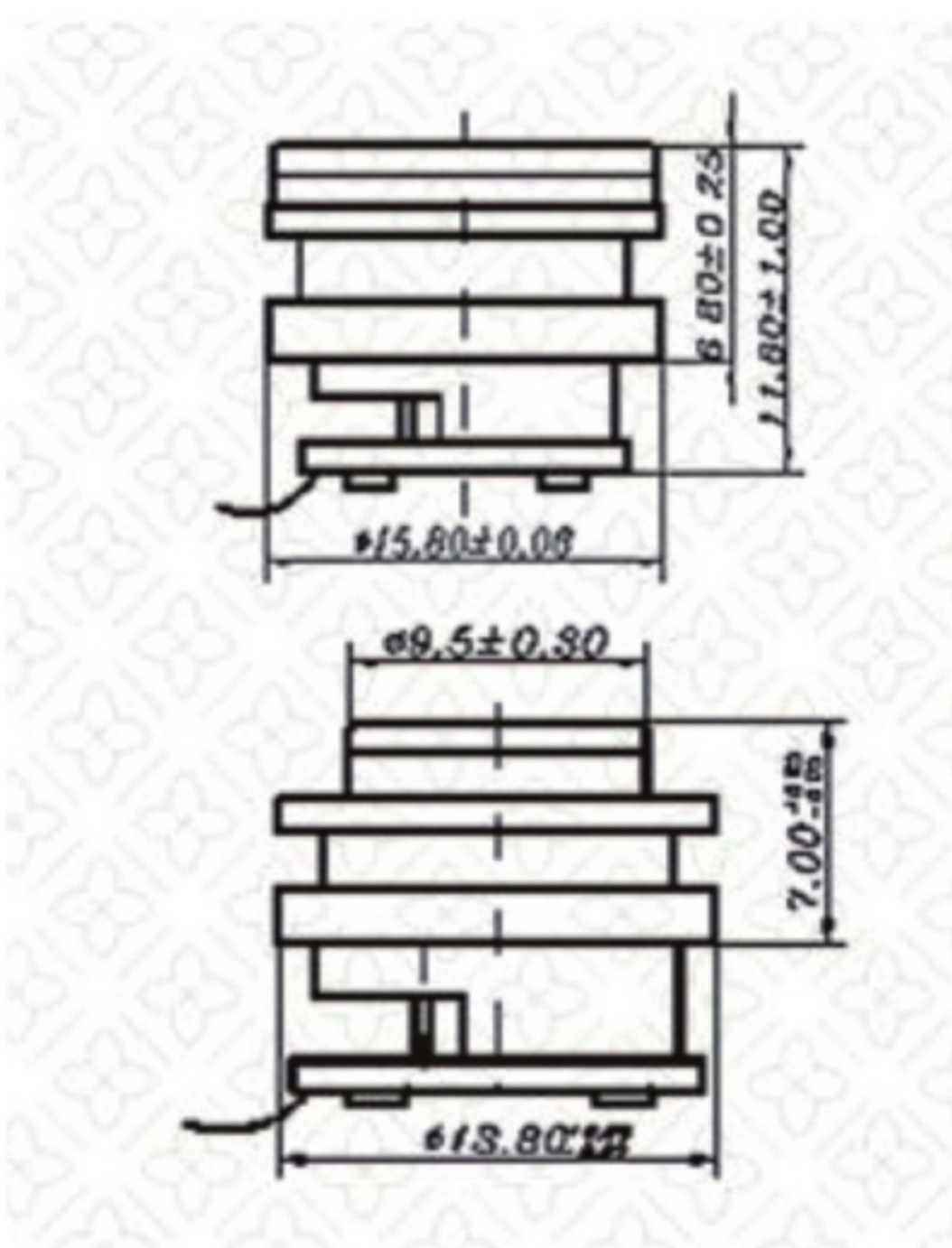
产品概述

CY-092 ,CY-093型系列压力传感器采用压阻效应原理，全不锈钢结构，316L不锈钢膜片与被测介质隔离，可采用O型圈和焊接两种密封连接方式。敏感芯片采用SOI结构，彻底消除PN结本征漏电，耐高温、低温。具有灵敏度高、抗振性能好、精度高、体积小、工作可靠、补偿温度范围宽等特点。

Product Introduction

CY-092 ,CY-093series pressure sensor use piezoresistive effect principle with all stainless steel structure, 316 L stainless steel diaphragm and isolation of measured medium can adopt two seal o-rings and welding connection. Sensitive chips use SOI structure, which eliminate p-n junction intrinsic leakage, it is high /low temperature resistant, high sensitivity, good ant-vibration performance, high precision, small volume, reliable operation, wide range of temperature compensation, etc.

外形尺寸 Dimention



技术指标 Technical index

产品型号 Model	MY86(A、G)	MY87(A、G)
测量范围 (MPa) Measuring Range	0.1~3.5	7~40
满量程输出 (mV) full-span output	75~150	75~150
零点输出(mV) Zero Output	-1~1	-1~1
非线性 (%FS) Nonlinearity	±0.2	±0.25
迟滞 (%FS) Delaying	±0.05	±0.05
重复性 (%FS) Repeatability	±0.05	±0.05
输入阻抗 (kΩ) Input impedance	2~4.5	2~4.5
输出阻抗 (kΩ) Output impedance	4~25	4~25
热零点漂移 (%FS/C) Thermal zero drift	±0.04	±0.03
热灵敏度漂移 (%FS/C) Thermal sensitivity drift	±0.04	±0.03
零点长期稳定性 (%FS/年) Zero point stability for a long time	0.1	0.1
供电电流 (mA) Supply current	0.5~2.0	0.5~2.0
绝缘电阻 (MΩ) Insulation resistance	≥100 (100VDC)	≥100 (100VDC)
过载压力 (%FS) Over load pressure	200	200
补偿温度 (°C) Compensation temperature	-20~+85	-40~+125
工作温度 (°C) Working Temperature	-40~+125	-40~+125
贮存温度 (°C) Storage temperature	-50~+125	-50~+125
重量 (g) Weight	≤15	≤15

注1: A、G、S衣示测压模式，分别为绝压、农压、密封农压；
Note 1: A, G, S clothing pressure model, absolute pressure, agriculture, sealing pressure garments;
注2:补偿温度的参考温度为+25°C；
Note 2: reference temperature of compensation temperature+25°C;
注3:测堡上限为40MPa的传感器过载压力为: 150%FS
Note3: uplimit: 40MPA, overload pressure: 150%FS

电气连接 Electrical Connection

传感器的电气连接方式为补偿板上直接引出导线，接点功能如下表:

Electrical connection of sensor is wire is directly compensational board , contact function is in the following table:

接点 Contact point	1	2	3	4
功能 Function	电源+ power +	输出- output-	输出+ output+	电源- power-