

SM24HY01 Pressure Sensor

Description:

The SM24HY01 pressure sensor uses high-performance proprietary diaphragms, combined with advanced temperature compensation technology, to convert pressure changes into linear voltage or current signals. This product is small in size and easy to install, suitable for measuring gases and liquids compatible with the contact material. It is widely used in pressure measurement of viscous liquids such as chemical coatings, paints, mud, bitumen, and crude oil; pressure measurement of air with particles and impurities; melt pressure measurement; and pressure measurement and control of flue gas pipelines.

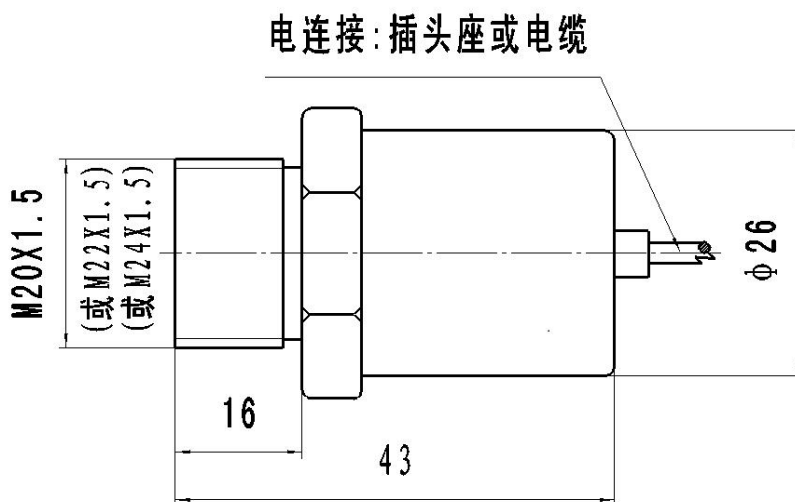


Characteristics:

- Circular diaphragm manufactured using proprietary American processing technology.
- The housing and diaphragm are integrated as one piece without a pressure chamber, resulting in high frequency response.
- The product features an all-stainless steel structure.
- Suitable for pressure measurement of various dynamic and static gas and liquid media.
- The product is available in two types: normal temperature and medium-high temperature.

Dimensions

(In mm. 1mm=0.03937 inches)



Circuit Diagram :

Red: +input

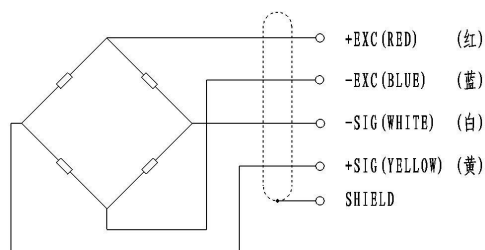
Blue: -input

Whit

e :

+out

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Yellow: -output

Specification :

Type	Technical parameters
Nominal load range	0 ~ 200 Mpa
Sensitivity	2.0±0.5mV/V
Class precision	0.25%FS
Input Impedance	1000±30
Output Impedance	1000±1
Zero Balance	≤0.1%FS
Power supply	10~12 VDC
Effect of temperature	0.5%FS/10°C
temperature compensation	-10~65°C
Operating temperature	-40 ~ +200°C
Safe Load Limit	150% FS
Material material	stainless steel
Protection type	IP67 (IEC60529)
Cable length	6m