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PIEZORESISTIVE CERAMIC PRESSURE SENSOR



(1) BRIEF INTRODUCTION

Ceramic piezoresistive pressure sensor with high precision and high stability, corrosion resistance, abrasion resistance, high temperature performance and other obvious advantages, and lower production costs. The HB2018 integrated ceramic pressure sensor is made combining advanced international manufacturing techniques; well established production testing system and excellent design. Ceramic piezoresistive pressure sensor will be pressure sensor development direction. It countries

a comprehensive alternative to other types of sensors in Europe and the United States , trends in China are gradually being more and more accepted by the users. Ceramic pressure sensors will apply to the field of petro-chemical industry, space flight and aviation, automotive, metallurgy equipment, automation control industry, etc.

(2)Range, overload pressure and burst pressure

Range	5bar	10bar	20bar	30bar	50bar	100bar	200bar	400bar
overload	10bar	20bar	40bar	60bar	100bar	200bar	400bar	500bar
Brust pressure	15bar	30bar	60bar	90bar	150bar	300bar	550bar	600bar

(3)Property, Operation parameter and Technical index

Power voltage:5-30vdc

Operating temperature:-40℃-125℃

Bridge impedance: 11KΩ±20%

Zero output:0±0.5mv/V (23℃)

Response time:<1ms

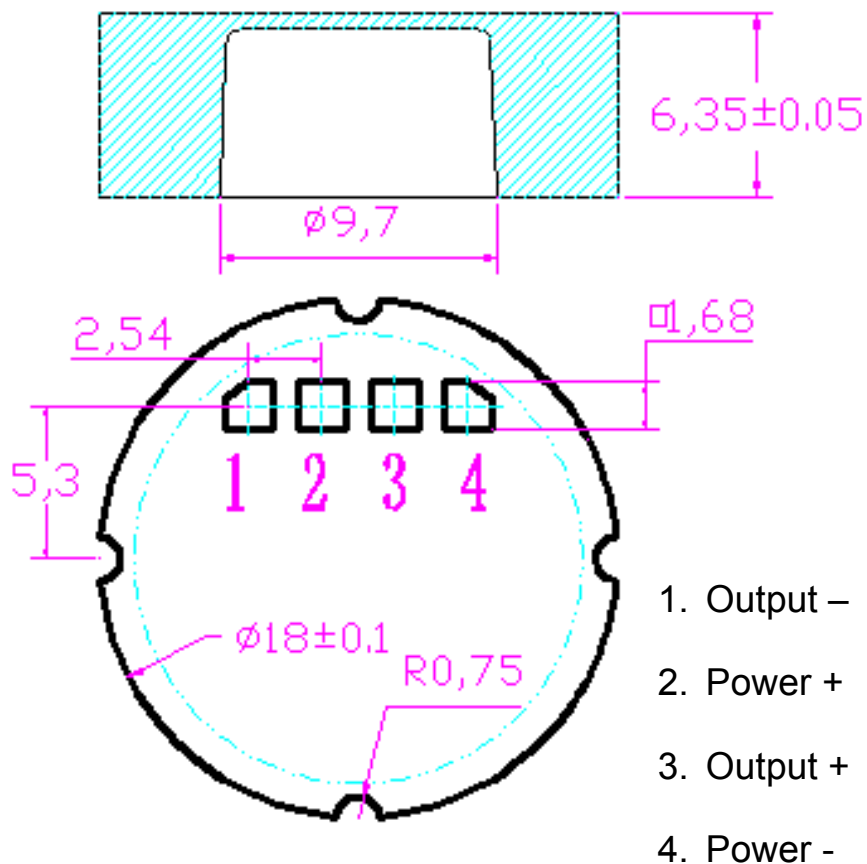
Sensitivity: 2.5~3.0mv/V

Total accuracy (include: linear, hysteresis, repeatability) <±0.5%FS

Temperature characteristic ±0.02%FS/℃

(4) Appearance Dimensions:

- With bonding wire: four color wire which anti high temperature
- With needle $\square 0.55 \times 0.27$ length 14-15mm
- With flexible circuit board
- Tin plating



(5) Model Selection Guide

e.g. The range is between 0—50bar, the most pressure of the hydraulic hammer is over 150, suggest choose 1-100bar.

Model: HB2018-100(range)