HIGH STRENGTH MICRO PRESSURE SENSOR

Overview

The TPS series pressure transmitter has extremely robust structure and stable sensor with sputtering thin-film-on-steel technology, as a result, they have proven themselves in a multitude of demanding applications in harsh environment. Superior precise manufacturing ensure the trans mitters work perfectly, especially in areas where high requirements are placed on long-term stability, vibration resistance, electromagnetic compatibility, shock resistance or temperature insensitivity, measuring range from 0 ~ 5bar... 2,500bar [100...to 36,000psi].





Applications

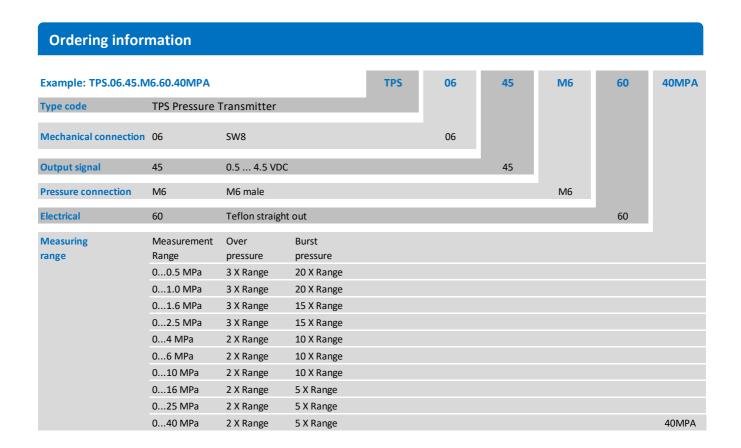
- Hydraulic pump, distribution valve, hydraulic actuator
- Automotive powertrain control
- Industrial automation control
- Special equipment
- Aerospace
- Robot
- Test equipment
- Ultramicro equipment integration and pipeline pressure monitoring

Features



- Exquisite and compact design with high precision
- Excellent long-term stability
- Thin-film-on-steel sensor technology
- Completely welded steel sensor system without additional seals
- Dry seals without oil filling, high stability, no potential leakage
- Superior anti-interference, vibration resistance, electromagnetic compatibility, shock resistance and advanced insulation film material resistant to very high over pressures
- Integrated structure, suitable for various fluid media
- Low temperature drift, low latency

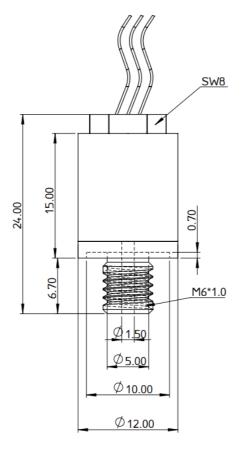
Technical Data			
Measuring principle	Thin-film-on-steel	Accuracy	± 0.5% FS
Measuring range	0 ~ 5bar 400bar	Long term stability	≤0.2% FS/year
Output signal	0 20mV (±2mV) 0.5 4.5VDC	Rise time	≤1ms
Supply Voltage	8~32VDC	Durability	≥10 ⁷ times
Current input	≤5mA	Pressure Media	Fluids compatible with 17-4PH
Electrical connection	Teflon straight out	Media temperature	-40°C +125°C
Sensor	17-4PH	Ambient temperature	-40°C +125°C
Over pressure	Page 2 of 2	Storage temperature	-40°C +125°C
Burst pressure	Page 2 of 2	Sealing	O-Ring/ED
Process connection	M6X1.0	Structural	SW8 (Head)



1) Additional request. Contact Factory

Dimension & Electrical Connection

unit: mm weight: ≈11g



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