

Miniature Pressure Sensor



Features Applications Available with 0,5-4,5Vdc output Miniature pressure sensor Operating from -40 to +125°C Available with connector or cable Automation & Robotics

The PST120 series is a miniature pressure sensor. Operating from -40 up to +125°C, three compensated temperature ranges are available to best suit your application's environment. Its wetted parts being all titanium, it is compatible with most media, including corrosive fluids used in automotive and aerospace industries. High performances and stability over temperature are achieved thanks to EFE proprietary sensing technologies. The robust and proven design of the sensor ensures reliability in your application. The PST120 series is available with unamplified (mV/V) and amplified voltage output (0,5-4,5Vdc), integrating a high performance and ruggedized electronic module.

Technical specifications

Pressure ranges (FS) -1/+4bar; -1/+9bar;

3bar; 5bar; 10bar; 20bar; 40bar; 100bar; 250bar; 400bar;

-14.5/+60PSI; -14.5/+140PSI;

40PSI; 70PSI; 150PSI; 300PSI; 500PSI; 1500PSI; 3000PSI; 5000PSI

Type Absolute ; Gage

Type (for ranges > 40 bar) Sealed Gage

Safe overload 150% FS

Burst pressure 300% FS

Power supply $5Vdc \pm 10mV$

Consumption < 10mA

Insulation > 1000 MOhms under 50Vdc at ambient temperature

Output at -100%FS (only for \pm range) 0.5Vdc

Output at 0%FS (except ranges ±) 0.5Vdc

Output at 100%FS 4.5Vdc

Zero and sensitivity settings tolerances ±50mV

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PST123 Specifications are subject to change without notice

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Technical Specifications

Non linearity and hysteresis combined ±0.25% FS

Option: ±0.1% FS

Non repeatability $\pm 0.02\%$ FS typ.

Signal bandwidth 1000Hz @ -3dB

Option : Special Adjustment up to 3000Hz @ -3dB

Compensated temperature range 0 to +60°C

Option: -25 to +85°C; -25 to +125°C

Operating temperature range -40 to +125°C

Combined thermal zero & sensitivity shifts ±0.02% FS/°C

Constant acceleration in linear vibrations ± 0.02% FS/g (frequency 20-2000Hz, 50g max.)

Mechanical shock 100g ½ sinus 1ms

Electrical protection Protected against polarity inversion

EMC protection Compliant to EN61000

Electrical connection AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires

Option: Microtech Hermetic Receptable DR-4S-4H, 4 pins (stainles steel)

Mechanical connection M10x1-4h male; M5x0.8-6g male

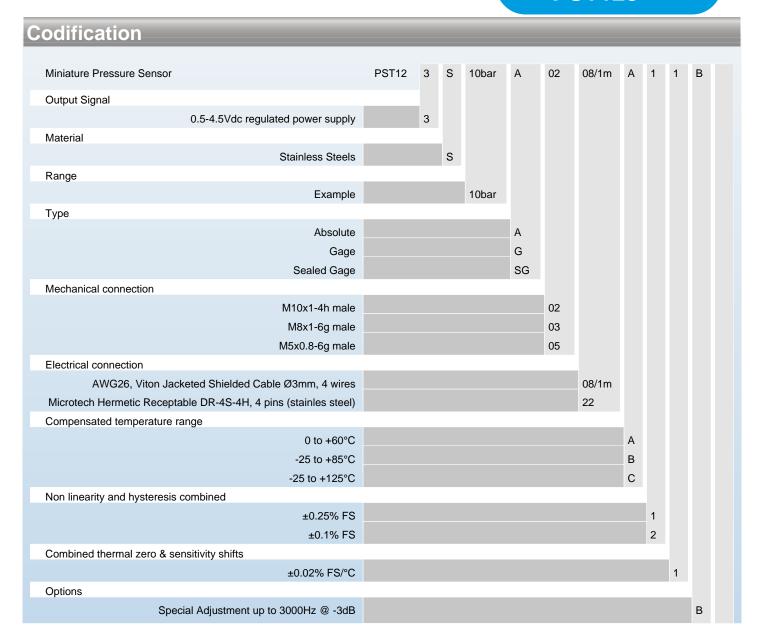
Option: M8x1-6g male

Material(s) of wetted parts Steel 316L; Stainless Steel 17-4PH; Stainless steel 15-5PH

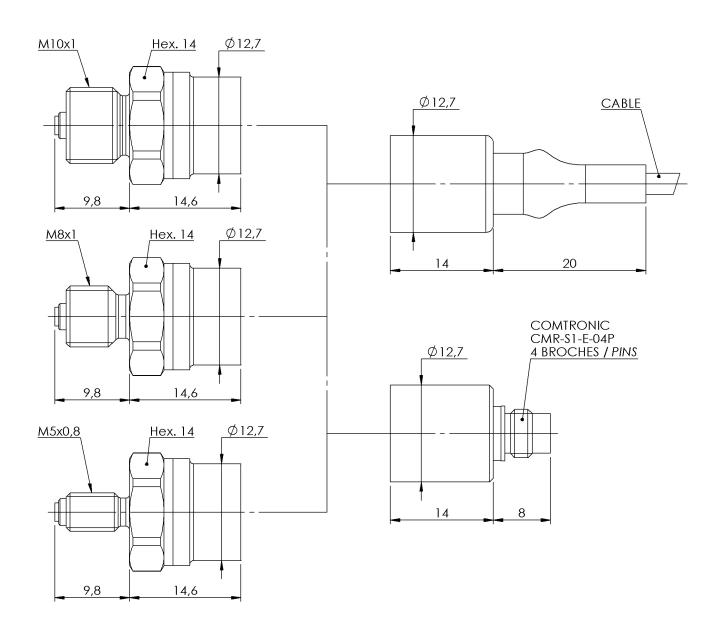
Weight 10g without cable

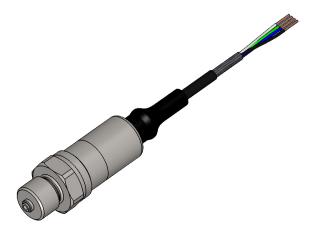
Enclosure protection IP65 for absolute & sealed gage version

PST123



Dimensions PST123

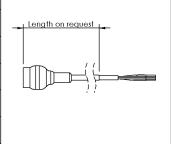




DIMENSIONS: mm

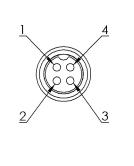


#26 AWG, 4 CONDUCTOR SHIELDED VITON CABLE		
VOLTAGE OUTPUT	CONDUCTOR	
+ EXCITATION	RED	
+ SIGNAL	GREEN / YELLOW	
NC	WHITE	
0 VOLT	BLUE / BLACK	
SENSOR HOUSING	SHIELD	





MICROTECH DR-4S-4H - 4 PINS	
VOLTAGE OUTPUT	PIN
+ EXCITATION	PIN 1
NC	PIN 4
0 VOLT	PIN 2
+ SIGNAL	PIN 3
SENSOR HOUSING	CONNECTOR HOUSING



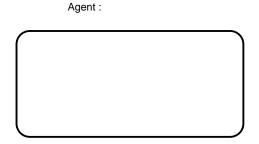


E.F.E.

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