

Flush Diaphragm Miniature Pressure Sensor



Model PFD121 pressure sensor is designed with a flush stainless steel diaphragm, in direct contact with process media and without dead volume. It is equiped with four active bonded strain gages arranged in a Wheatstone-bridge configuration. The PFD121, available on standard with unamplified output (mV/V), is able to measure dynamic pressure spikes. On option, it can be set up with a remote amplifier (AMP310). Available pressure ranges span from 15 to 700 bar. The PFD121 can be used in corrosive fluid environments.

Technical specifications		
Pressure ranges (FS)	15bar ; 20bar ; 35bar ; 70bar ; 250bar ; 500bar ; 700bar ;	
	200PSI; 300PSI; 500PSI; 1000PSI; 3000PSI; 7000PSI; 10000PSI	
Туре	Gage	
Safe overload	150% FS	
Burst pressure	300% FS	
Output impedance	350 Ohms ±5%	
Input impedance	370 Ohms ±5%	
Power supply	10Vdc	
Consumption	< 30mA	
Insulation	> 1000 MOhms under 50Vdc at ambient temperature	
Output at 0%FS	0mV/V	
Output at 100%FS	1.5mV/V nom.	
Zero and sensitivity settings tolerances	±3% FS	
Non linearity and hysteresis combined	±0.50% FS	
Non repeatability	±0.02% FS typ.	

Technical Specifications

Compensated temperature range 0 to +60°C

Option: -25 to +85°C

Operating temperature range -40 to +90°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

EMC protection Compliant to EN61000

Electrical connection AWG26 Shielded Teflon Cable Ø3.4mm ±0.2, 5 wires

Mechanical connection M10x1-4h male

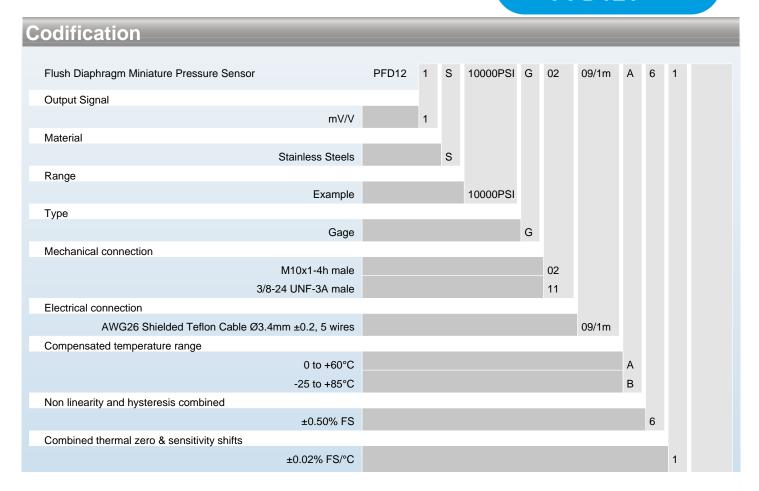
Option: 3/8-24 UNF-3A male

Material(s) of wetted parts Stainless Steel 17-4PH

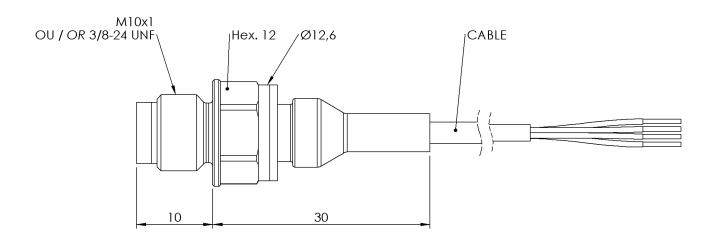
Weight 10g without cable

Enclosure protection IP65

PFD121



Dimensions PFD121

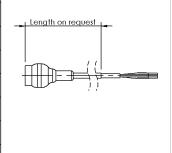




DIMENSIONS: mm



5 CONDUCTOR TEFLON CABLE		
mV/V OUTPUT	CONDUCTOR	
+ EXCITATION	RED	
+ SIGNAL	GREEN	
- SIGNAL	WHITE	
- EXCITATION	BLACK	
NC	BLUE	
SENSOR HOUSING	SHIELD	





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