

Semi Flush Miniature Pressure Sensor



The PSF160 series is designed for highly dynamic pressure measurements. Thanks to a semiflush construction, the pressure diaphragm is exposed, in direct contact with the medium, with reduced dead volume. Being all titanium, it is compatible with most media including corrosive fluids used in industry. Unamplified (mV/V output) or equipped with the latest signal conditioning technologies from EFE (0-5 and 0.5-4.5Vdc outputs), it is able to measure very dynamic pressure spikes. Its thin film sensitive element ensures high performances and stability over wide temperature range. Models with built-in electronics (power supply : 8-30Vdc), being low consumption (< 10mA) and with high bandwidth capabilities are particularly adapted to embedded applications.

Technical specifications

Pressure ranges (FS)	-1/+4bar ; -1/+9bar ;			
	5bar ; 10bar ; 20bar ; 40bar ; 70bar ; 250bar ;			
	-14.5/+60PSI ; -14.5/+140PSI ;			
	70PSI ; 150PSI ; 300PSI ; 500PSI ; 1000PSI ; 3000PSI			
Туре	Absolute ; Gage			
Type (for ranges > 40 bar)	Sealed Gage			
Safe overload	150% FS			
Burst pressure	300% FS			
Power supply	8 to 30Vdc			
Consumption	< 10mA			
Insulation	> 1000 MOhms under 50Vdc at ambient temperature			
Output at -100%FS (only for ± range)	0Vdc			
Output at 0%FS (except ranges ±)	0Vdc			
Output at 100%FS	5Vdc			
Zero and sensitivity settings tolerances	±50mV			

www.efe-sensor.com

PSF164 Specifications are subject to change without notice

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PSF164

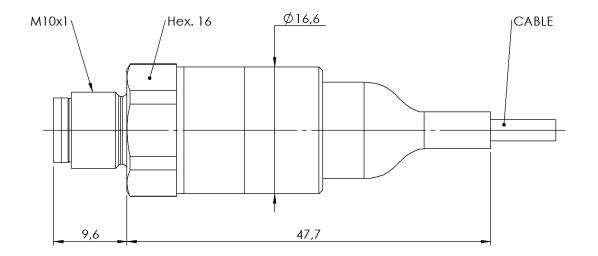
Technical Specifications

Non linearity and hysteresis combined	±0.25% FS			
	Option : ±0.1% FS			
Non repeatability	±0.02% FS typ.			
Signal bandwidth	1000Hz @ -3dB			
	Option : Special Adjustment up to 5000Hz @ -3dB			
Compensated temperature range	0 to +60°C			
	Option : -25 to +85°C ; -25 to +125°C ; -40 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			
Mechanical connection	M10x1-4h male semi-flush with integrated O-ring			
Material(s) of wetted parts	Titanium TA6V (3.7165)			
Weight	< 20g without cable			
Enclosure protection	IP65 for absolute & sealed gage version			

PSF164

Semi Flush Miniature Pressure Sensor	PSF16	4	Т	10bar	A	17	08/1m	А	1	1	В
Output Signal											
0-5Vdc		4									
Material											
Titanium			т								
Range											
Example				10bar							
Туре											
Absolute					A						
Gage					G						
Sealed Gage					SG						
Mechanical connection											
M10x1-4h male semi-flush with integrated O-ring Electrical connection						17					
AWG26, Viton Jacketed Shielded Cable Ø3mm, 4 wires							08/1m				
Compensated temperature range							00/111				
0 to +60°C								А			
-25 to +85°C								В			
-25 to +125°C								с			
-40 to +125°C								D			
Non linearity and hysteresis combined											
±0.25% FS									1		
±0.1% FS									2		
Combined thermal zero & sensitivity shifts											
±0.02% FS/°C										1	
Options					_						
Special Adjustment up to 5000Hz @ -3dB											В

Codification





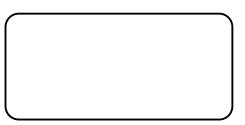
DIMENSIONS : mm

PSF164

	#26 AWG, 4 CONDUCT		
	VOLTAGE OUTPUT	Length on request	
	+ EXCITATION	RED	
	+ SIGNAL		
	NC	WHITE	.,
•	0 VOLT	BLUE / BLACK	
	SENSOR HOUSING	SHIELD	



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Questi prodotti sono distribuiti e supportati in Italia da:



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