



PSF120 (former P990)

SEMI FLUSH SENSOR



- ▶ **Semi Flush Miniature Sensor**
- ▶ **Built in Electronic with 5 khz Bandwidth**
- ▶ **High Natural Frequency : up to 120kHz**
- ▶ **Operating from -40 to +140°C**
- ▶ **All Titanium ultra light Sensor**

MINIATURE

Technical Specifications	PSF121	PSF123	PSF127
Pressure Ranges (FS)	5 / 10 / 20 / 40 / 70 / 250bar -1/+4bar; -1/+9bar		
	70 / 150 / 300 / 500 / 1000 / 3000PSI -14,5/+60PSI; -14,5/+140PSI		
Type	Absolute, Gage, Sealed Gage (for ranges > 40bar)		
Safe Overload / Burst Pressure	150%FS / 300%FS		
Input Impedance for PSF121	4000Ω ± 20%	-	-
Output Impedance for PSF121	3500Ω ± 20%	-	-
Power Supply	5 to 15Vdc	5Vdc ± 10mV	8 to 16Vdc
Consumption	< 10mA		
Output at -100%FS (only for ± range)	Proportional to +100%FS	0,5Vdc	0,5Vdc
Output at 0%FS	0mV/V	0,5Vdc	0,5Vdc
Output at 100%FS	1,5mV/V nom.	4,5 Vdc	4,5Vdc
Zero and Sensitivity settings tolerances	± 3%FS	± 50mV	± 50mV
Combined Non Linearity & Hysteresis	± 0,35%FS	± 0,25%FS	± 0,25%FS
<i>Option</i>	-	± 0,1%FS	± 0,1%FS
Non Repeatability	± 0,02%FS typ.		
Signal Bandwidth (electronic)	1000Hz @ -3dB		
<i>Option</i>	5000Hz @ -3dB, (Higher on request)		
Insulation	> 1000MΩ @ 50Vdc		
Compensated Temperature	0 to +60°C / 32 to +140°F		
<i>Option</i>	-25 to +85°C / -13 to +185°F		
<i>Option</i>	-25 to +125°C / -13 to +257°F		
<i>Option</i>	-40 to +125°C / -40 to +257°F		
Operating Temperature	-40 to +140°C / -40 to +284°F		
Combined thermal zero & sensitivity shifts	± 2.10 ⁻⁴ FS/°C		
<i>Option</i>	-		
Long Term Stability	± 0,1%FS/year typ.		
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		
Standard Electrical Connection	1m Viton Jacketed Shielded Cable Ø3mm, 4 wires AWG26		
<i>Option</i>	-		
Standard Mechanical Connection	M10x1 male		
<i>Option</i>	-		
Material(s) of Wetted Parts	Titanium TA6V (1.444)		
Weight	< 10g without cable		
Enclosure Protection	IP65 for Sealed Gage		
Accessories delivered with the sensor	Viton O-ring 8,9x1,9 (standard)		
	Calibration certificate ou Datas in pressure and temperature (option)		



E.F.E.

L'Essor Français Electronique

Head Office: 16 rue Porte à Bateaux – 27540 Ivry la Bataille – France

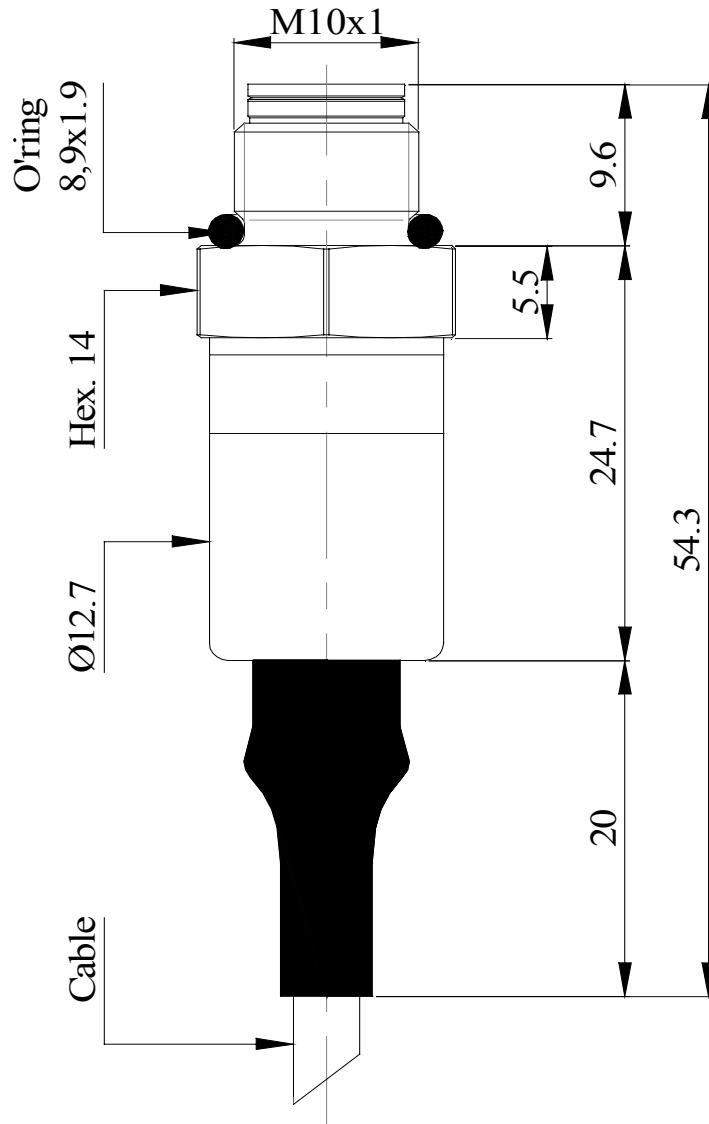
Tel: 33 (0)2.32.22.35.05 – Fax: 33 (0)2.32.36.93.08 – www.efe-sensor.com



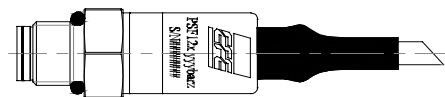
PSF120

**SEMI FLUSH SENSOR
CAPTEUR SEMI AFFLEURANT**

PLAN / DRAWING



SCALE 1:1



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PSF120		ORDER CODE								
Complete Reference		PSF12 X - X - XXX - XXX - XX - XX - XX - X XX - XX								
Model	Pressure sensor with Semi Flush diaphragm Ø 12mm	PSF								
		12								
Output Signal										
	1,5mV/V									1
	0,5-4,5Vdc (ratiometric)									3
	0,5-4,5Vdc									7
Material of wetted parts										
	Titanium			T						
Pressure Ranges										
	Unidirectional example : 20bar					20				
	Bidirectional example : -1/+4bar					-1/4				
Pressure Unit										
	bar						bar			
	PSI						PSI			
Operational Mode										
	Gage						G			
	Sealed Gage						SG			
	Absolute						A			
Mechanical Thread										
	M10x1 male								02	
Electrical Connection										
	Viton cable output X meter(s)								08/Xm	
Compensated Temperature										
	0 to +60°C / 32 to +140°F									A
	-25 to +85°C / -13 to +185°F									B
	-25 to +125°C / -13 to +257°F									C
	-40 to +125°C / -40 to +257°F									D
Accuracy										
	± 0,25%FS (Standard)									0
	± 0,1%FS (Option)									1
Thermal Shifts										
	± 2.10 ⁻⁴ FS/°C (Standard)									0
Options										
	N/A									
	5000Hz bandwidth @ -3dB									00 B



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