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EPX Miniature pressure sensor



- **Stainless Steel Pressure Sensor**
- **Flush Diaphragm**
- **Small threads**
- **Suitable for general applications**
- **Broad frequency range**

DESCRIPTION

The **EPX** is a miniature threaded pressure sensor with stainless steel flush diaphragm compatible with general media. Threads M5x0.8 or 10-32 UNF are available with built-in 0-ring seal for an easy installation. The **EPX** is offered in many pressure ranges from 0.35 to 350 bar (5 to 5000 psi) with gage, sealed gage, or absolute pressure reference. Non standard excitation, compensated temperatures, cable and thread lengths are available as options.

FEATURES

- Small threads M5x0.8 or 10-32 UNF
- Ranges from 0.35 to 350 bar (5 to 5,000 psi)
- Stainless Steel Construction
- Useful frequency up to 90kHz
- CE approved

APPLICATIONS

- General testing
- Automotive, marine and flight testing
- Space flight and experimentation

STANDARD RANGES

Pressure ranges		**Pressure Reference**			**Pressure Limit**	**Resonant Frequency**[1] (nom.)	**Output "FSO"** (nom.)	**CNL&H** (%FSO)	**Thermal Zero Shift "TZS"** (/50°C)
(BAR)	(PSI)	**gage** (type1)	**sealed** (type2)	**abs.** (type3)					
0.35	5	•	•	•	10 x FS	45 KHz	15 mV	±1%	±1mV
0.7	10	•	•	•	5 x FS	50 KHz	25 mV	±1%	±1mV
1	15	•	•	•	3.5 x FS	65 KHz	30 mV	±1%	±1mV
1.5	25	•	•	•	2 x FS	65 KHz	50 mV	±1%	±2% FSO
3.5	50	•	•	•	2 x FS	75 KHz	75 mV	±1%	±2% FSO
7	100	•	•	•	2 x FS	80 KHz	125 mV	±0.5%	±1.5% FSO
15	250	•	•	•	2 x FS	120 KHz	125 mV	±0.5%	±1.5% FSO
35	500	•	•	•	2 x FS	150 KHz	125 mV	±0.5%	±1.5% FSO
70	1K		•	•	2 x FS	200 KHz	125 mV	±0.5%	±1.5% FSO
150	2.5K		•	•	1.6 x FS	300 KHz	125 mV	±0.5%	±1.5% FSO
350	5K		•	•	1.2 x FS	450 KHz	125 mV	±0.5%	±1.5% FSO

Note 1: useful frequency is 20% of Resonant Frequency

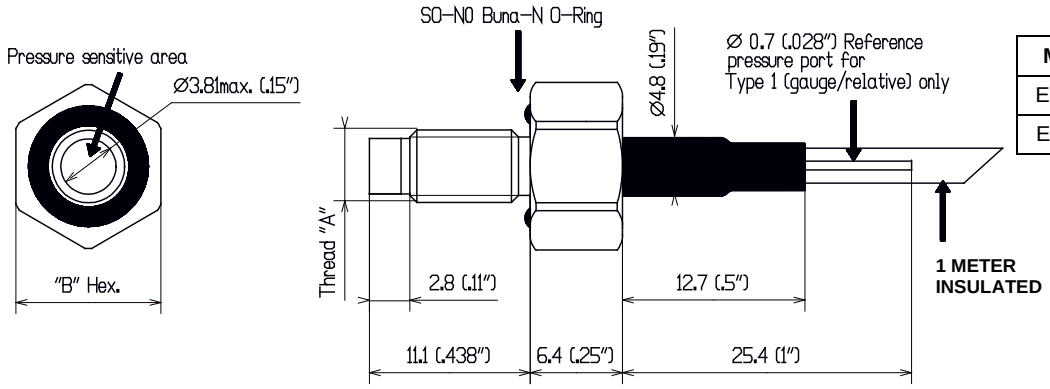
EPX Miniature pressure sensor

PERFORMANCE SPECIFICATIONS

PARAMETERS	VALUES	NOTES
Supply Voltage	10VDC	See option table for other Voltages
Input Resistance	1200Ω nom.	
Output Resistance	350Ω nom.	
Non-Repeatability	± 0 . 2 5 % FSO	
Thermal Sensitivity Shift "TSS"	±2%/50°C	
Operating Temperature	-40°C to 120°C	
Compensated temperature	20°C to 80°C	See option table for other Temperatures
Zero Offset at 23°C	± 10 mV	
CE conformance according to	EN 61010-1, EN 50081-1, EN 50082-1	

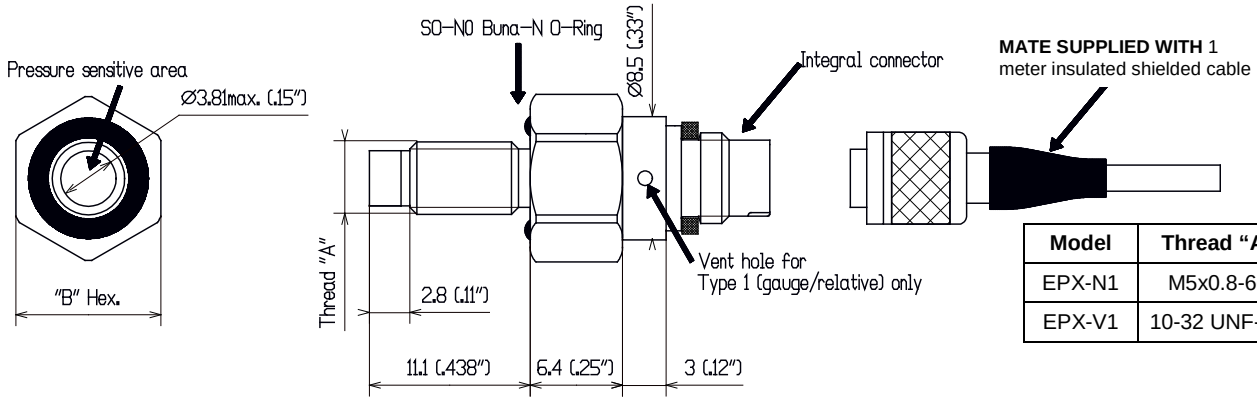
DIMENSIONS

EPX-N0 & EPX-V0



Model	Thread "A"	"B"Hex.
EPX-N0	M5x0.8-6g	10 (.4") Hex.
EPX-V0	10-32 UNF-2A	9.5 (3/8") Hex.

EPX-N1 & EPX-V1



Model	Thread "A"	"B"Hex.
EPX-N1	M5x0.8-6g	10 (.4") Hex.
EPX-V1	10-32 UNF-2A	9.5 (3/8") Hex.

Dim : mm (inches)

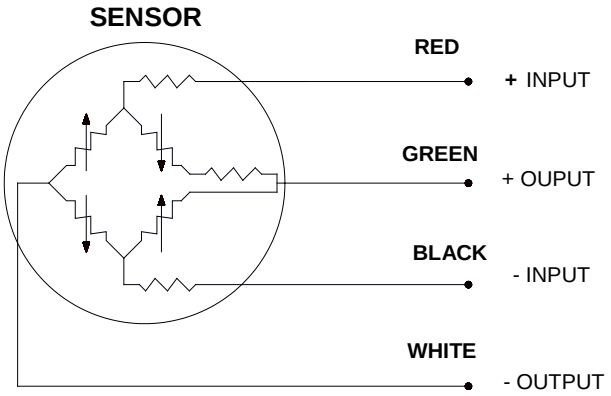
EPX Miniature pressure sensor

INSTALLATION

Recommended installation torque :
FS ≤ 3.5 bar (50 psi) : 0.6 m.N (5 In.Lbs)
FS > 3.5 to 35 bar (50 to 500 psi) : 1.2 m.N (10 In.Lbs)
FS > 35 bar (500 psi) : 1.8 m.N (15 In.Lbs)

*Note: Excessive torque may change zero offset. In such cases, output should be re-zeroed through instrumentation.

CONNECTIONS



OPTIONS AND ACCESSORIES

OPTIONS	CODES	DESCRIPTIONS
Compensated Temperature Ranges	Z0	-40°C to 20°C
	Z1	-20°C to 40°C
	Z2	0°C to 60°C
	Z*	Non-standard, contact MEAS
Supply Voltage	V00	Replace “00” with Voltage between 1 and 10. If less than 10, Sensitivity FSO will decrease accordingly
	V*	Non-standard Excitation with standard FSO and non-standard TSS, contact MEAS
Special Cable Length	L00F	Replace “00” with total length in feet
	L00M	Replace “00” with total length in meters
Custom Length Hex to Tip	0000I	Replace “0000” with thread length in inches between 0.25” to 1.5”
	0000M	Replace “0000” with thread length in millimeters between 6.3 to 38mm
Waterproofing Cable Exit (only for models N0 or V0 sealed or absolute)	X	Short Term Waterproofing
Connector Wired to Leads or Cable	C	Microtech type male or equivalent (w/o mate)
	RS	RJ Telephone type male (w/o mate)
Extra O-Rings for EPX	SO-N0	BUNA-N
	SO-N2	Fluoroelastomer
	SO-N3	Fluoropolymer

EPX Miniature pressure sensor

ORDERING INFORMATION

Model	-	Body	Pres. Ref.	-	Range & Unit[1]		-	/Options
EPX	-	N0	1 = Gauge	-	0.35B	5P	-	/Z0, Z1, Z2, or Z*
		N1	2 = Sealed		0.7B	10P		/V1 thru V10 or V*
		V0	3 = Absolute		1B	15P		/L00F or L00M
		V1			1.5B	25P		/0000I or 0000M
					3.5B	50P		/X
					7B	100P		/C or RS
					15B	250P		
					35B	500P		
					70B	1KP		
					150B	2.5KP		
					350B	5KP		

Note 1: select ranges in BAR with body N and ranges in PSI with body V.
Examples of model construction: EPX-N13-7B-/Z1/V5/L3M/38M or EPX-V01-15P-/Z0/L6F/1.5I/C

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