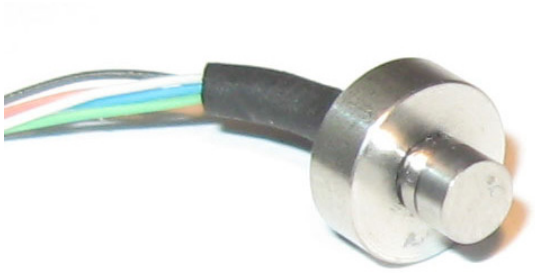
EPB Series



- **Stainless Steel Pressure Sensor**
- **Flush diaphragm**
- **General media**
- **Designed for static or dynamic measurements**
- **Small size**

DESCRIPTION

EPB is a small pressure probe sensor, small profile, stainless steel, flush mount transducer designed for general media. EPB is offered in pressure ranges from 0-5 to 5000 psi (0-0.35 to 350 bar), vented, sealed, and absolute pressure. EPB's overall diameter can be as small as 3.2 mm (0.125")
Resonant frequency 55 through 400 kHz makes it suitable for both static and dynamic measurements.
Various compensated temperature ranges are available from -40℃ up to 90℃.

FEATURES

- Available ranges 0-5 to 5000 psi (0-0.35 to 350 bar)
- Stainless Steel Construction
- Resonant frequency 55 through 400 kHz
- Non repeatability : 0.25% FSO
- CE approved

APPLICATIONS

- General lab. testing
- Robotics and machine control
- Marine and Flight testing
- Automotive testing

STANDARD RANGES

Pressure ranges		Pressure Reference			Pressure Limit	Resonant Frequency(1)	Output "FSO"	CNL&H	Thermal Zero Shift "TZS"
(BAR)	(PSI)	gage (type1)	sealed (type2)	abs. (type3)		(nom.)	(nom.)	(%FSO)	(/50℃)
0.35	5	•	•	•	10 x FS	55 KHz	10 mV	±1%	±1mV
0.7	10	•	•	•	5 x FS	55 KHz	20 mV	±1%	±1mV
1	15	•	•	•	3.5 x FS	55 KHz	30 mV	±1%	±1mV
1.5	25	•	•	•	2 x FS	55 KHz	50 mV	±1%	±2% FSO
3.5	50	•	•	•	2 x FS	60 KHz	75 mV	±1%	±2% FSO
7	100	•	•	•	2 x FS	70 KHz	125 mV	±0.75%	±1.5% FSO
15	250	•	•	•	2 x FS	100 KHz	125 mV	±0.5%	±1.5% FSO
35	500	•	•	•	2 x FS	150 KHz	125 mV	±0.5%	±1.5% FSO
70	1000		•	•	2 x FS	200 KHz	125 mV	±0.5%	±1.5% FSO
150	2500		•	•	2 x FS	300 KHz	125 mV	±0.5%	±1.5% FSO
350	5000		•	•	2 x FS	450 KHz	125 mV	±0.5%	±1.5% FSO

Note 1: useful frequency is 20% of Resonant Frequency

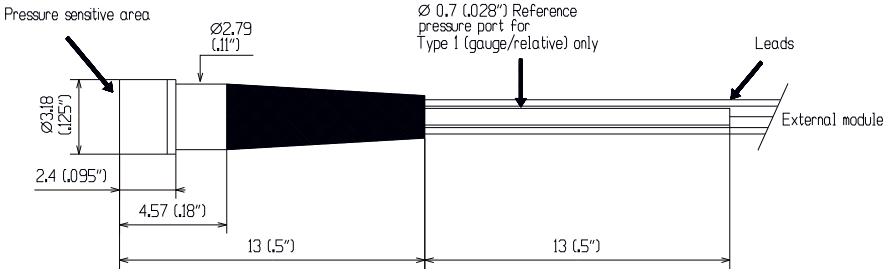
EPB Series

PERFORMANCE SPECIFICATIONS

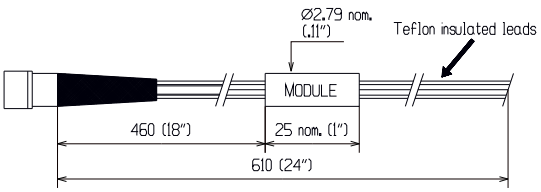
PARAMETERS	VALUES	NOTES
Supply Voltage	10VDC	See option table for other Voltages
Input Resistance	1200Ω nom.	
Output Resistance	350Ω nom.	
Non-Repeatability	±0.25% FSO	
Thermal Sensitivity Shift "TSS"	±2%/50℃	
Operating Temperature	-40℃ to 120℃	
Compensated temperature	20℃ to 80℃	See option table for other Temperatures
Zero Offset at 23℃	±10 mV	
CE conformance according to	EN 61010-1, EN 50081-1, EN 50082-1	

DIMENSIONS

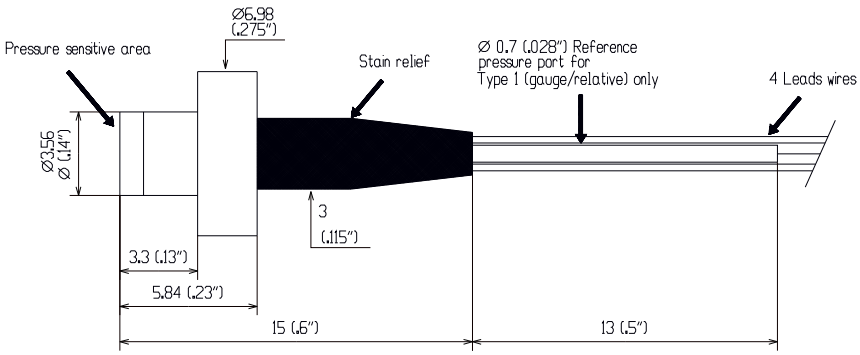
EPB-B0



WIRING



EPB-C1



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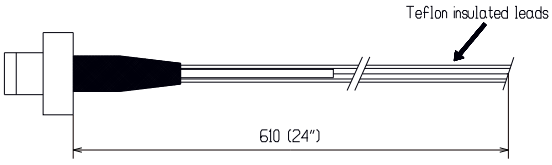
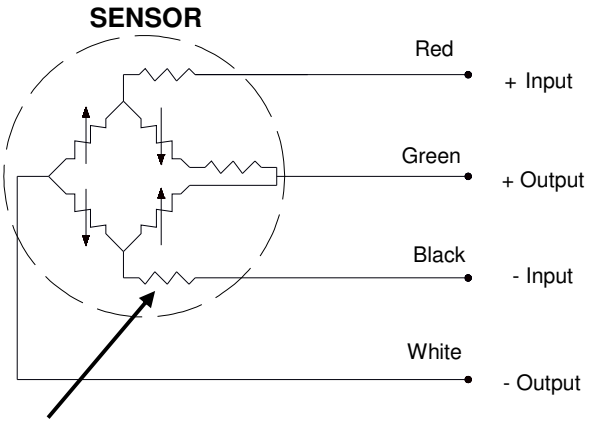


Dim : mm (inches)

CONNECTIONS & INSTALLATION



EPB-B0 compensation resistors in external module

OPTIONS AND ACCESSORIES

OPTIONS	CODES	DESCRIPTIONS
Compensated Temperature Ranges	Z0	-40℃ to 20℃
	Z1	-20℃ to 40℃
	Z2	0℃ to 60℃
	Z4	40℃ to 90℃
	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
Special Module Location for EPB-B0	M00F	Replace “00” with distance between sensor and module in feet
	M00M	Replace “00” with distance between sensor and module in meters
Waterproofing Cable Exit (only for model EPB-C1 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)

ORDERING INFORMATION

Model	-	Body	Pres. Ref.	-	Range & Unit[1]		-	/Options
EPB	-	B0	1 = Gauge	-	0.35B	5P	-	/Z0, Z1, Z2, Z4 or Z*
		C1	2 = Sealed		0.7B	10P		/V1 thru V10 or V*
			3 = Absolute		1B	15P		/L00F or L00M
					1.5B	25P		/M00F or M00M
					3.5B	50P		/X
					7B	100P		/C or RS
					15B	250P		
					35B	500P		
					70B	1KP		
					150B	2.5KP		
					350B	5KP		

Examples of model construction: EPB-B01-7B-/Z1/V5/L3M/M2M