



- **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°C up to 90°C.

**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 <sup>(1)</sup> (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        | 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                        |

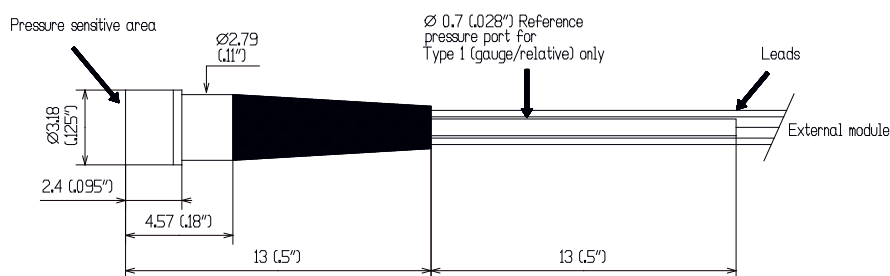
Note 1: useful frequency is 20% of Resonant Frequency

## PERFORMANCE SPECIFICATIONS

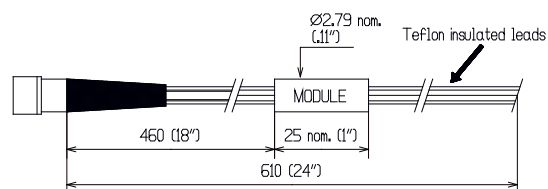
| PARAMETERS                          | VALUES   | NOTES                                   |
|-------------------------------------|--|---|
| Supply Voltage                      | 10VDC  | See option table for other Voltages     |
| Input Resistance                    | 1200 $\Omega$ nom.           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

## DIMENSIONS

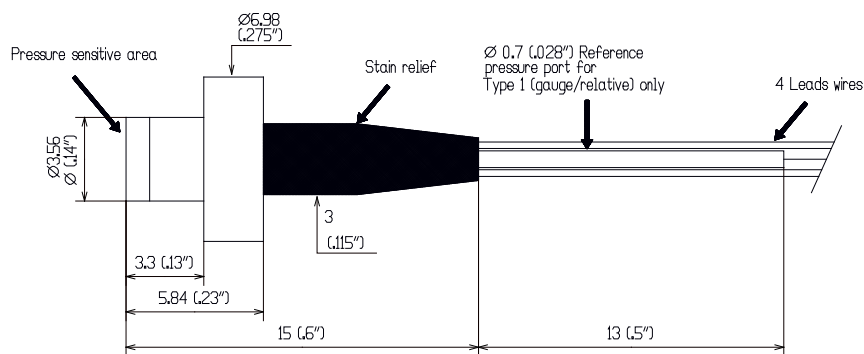
**EPB-B0**



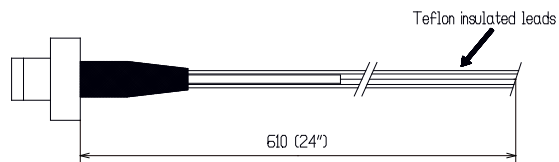
**WIRING**



**EPB-C1**

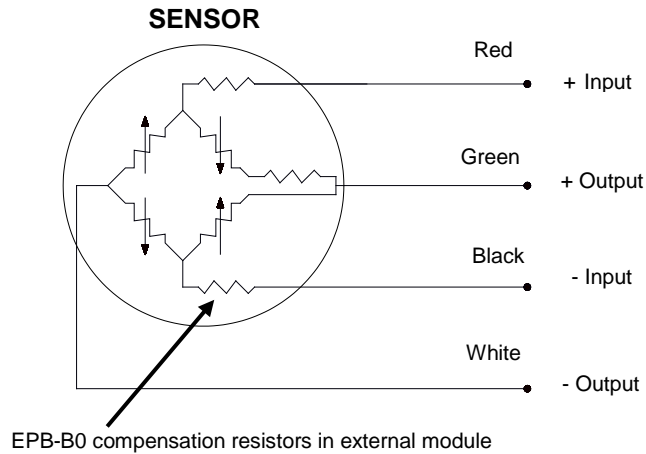


**WIRING**



Dim : mm (inches)

## CONNECTIONS & INSTALLATION



## 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  |
|   | Z4    | 40°C to 90°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   |
| 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)  |

# EPB

## ORDERING INFORMATION

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

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

## 联系方式



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