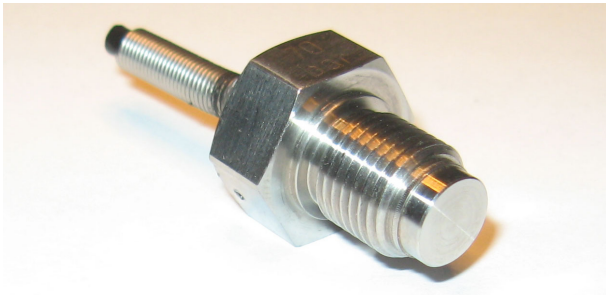
# EPXO Series



- **Stainless Steel Pressure Sensor**
- **Flush diaphragm**
- **High frequency response**
- **Amplified or unamplified output**
- **High operating temperatures**

## DESCRIPTION

The EPXO is a high performance, stainless steel flush diaphragm. It is designed for high temperature, high stability, and high sensitivity applications. The EPXO is offered in pressure ranges from 10 to 500 bar in gage (vented), sealed gage, and absolute pressure. Various compensated temperature ranges are available from -40°C up to 200°C. The sensor is offered with an amplified or unamplified output.

## FEATURES

- Thread M10 or 3/8-24 UNF
- Ranges from 10 to 500 bar (150 to 7500 psi)
- Rugged Stainless Steel Construction
- CE approved

## APPLICATIONS

- Chemical processing
- Automotive test benches
- Marine and Flight testing

## STANDARD RANGES

| Pressure ranges | | Pressure Reference | | | Pressure Limit | Resonant Frequency [1] (nom.) | Output "FSO" [2] (nom.) | CNL&H (%FSO) | Thermal Zero Shift "TZS" (/50°C) |
|---|---|---|---|---|---|---|---|---|---|
| (BAR) | (PSI) | gage (type1) | sealed (type2) | abs. (type3) | | | | | |
| 10 | 150 | • | • | • | 1.5 x FS | 30 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |
| 15 | 200 | • | • | • | 1.5 x FS | 45 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |
| 20 | 300 | • | • | • | 1.5 x FS | 50 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |
| 35 | 500 | • | • | • | 1.5 x FS | 65 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |
| 70 | 1K | | • | • | 1.5 x FS | 95 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |
| 100 | 1.5K | | • | • | 1.5 x FS | 110 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |
| 150 | 2K | | • | • | 1.5 x FS | 130 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |
| 200 | 3K | | • | • | 1.5 x FS | 150 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |
| 350 | 5K | | • | • | 1.5 x FS | 190 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |
| 500 | 7.5K | | • | • | 1.5 x FS | 230 KHz | 9 mV or 5V | ±0.75% | ±1 % FSO |

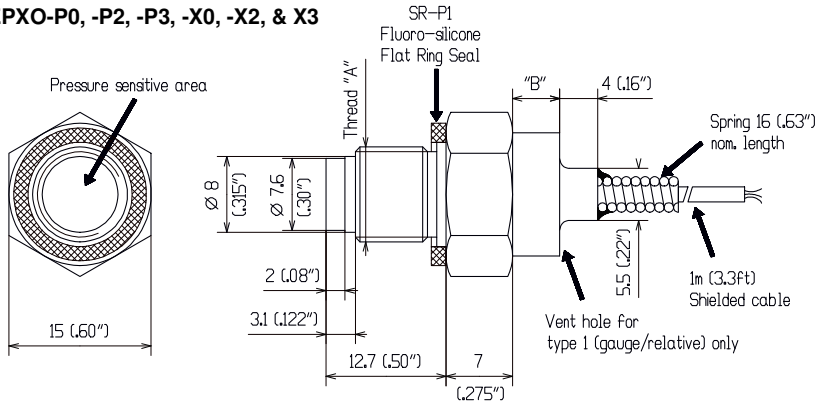
Note 1 : useful frequency is 20% of Resonant Frequency for types P0, P4, X0 and X4; 3 KHz at 1dB for P2, P6, X2, X6 and 1 KHz at 1dB for P3, P7, X3 and X7.
Note 2 : FSO is 9 mV nom. for types P0, P4, X0 and X4; 5V nom. on all others.

## PERFORMANCE SPECIFICATIONS

| PARAMETERS | VALUES | NOTES |
|---|---|---|
| Supply Voltage | P0, P4, X0 & X4 = **5VDC**<br>P2, P6, X2 & X6 = **±15VDC**<br>P3, P7, X3 & X7 = 28 VDC **(24-32VDC)** | See option table for other Voltage |
| Input Resistance | P0, P4, X0 & X4 = 1KΩ nom.<br>P2, P3, P6, P7, X2, X3, X6 & X7 =15 mA max. | |
| Output Resistance | P0, P3, P4, P7, X0, X3, X4, & X7 =1KΩ nom.<br>P2, P6, X2 & X6 ≤1Ω | |
| Non-Repeatability | ± 0.25% FSO | |
| Thermal Sensitivity Shift "TSS" | ± 1%/50℃ | |
| Operating Temperature | -40℃ to 125℃<br>or 220℃ on P0 & X0 with option Z36 or Z38 | |
| Compensated temperature | 0℃ to 60℃ | See option table for other temperature |
| Zero Offset at 23℃ | ±5% FSO | |
| CE conformance according to | EN 61010-1, EN 50081-1, EN 50082-1 | |

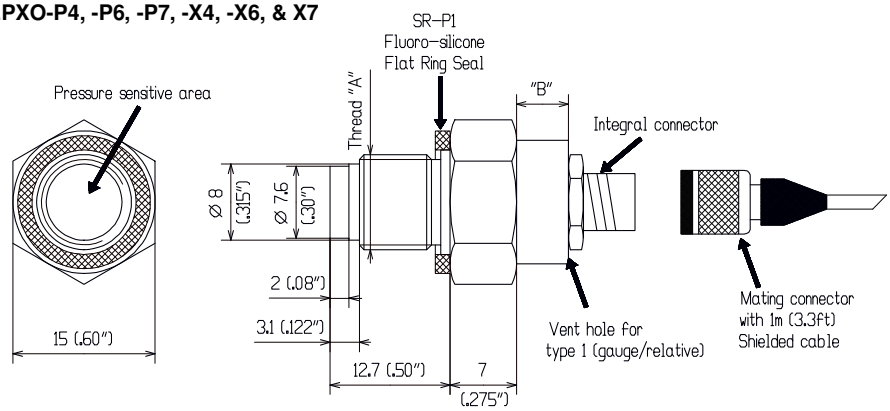
## DIMENSIONS

**EPXO-P0, -P2, -P3, -X0, -X2, & X3**




| Model | Thread "A" | "B" |
|---|---|---|
| EPXO-P0 | M10x1-6g | 0 |
| EPXO-P2, -P3 | M10x1-6g | 5 (.20") |
| EPXO-X0 | 3/8-24UNF-2A | 0 |
| EPXO-X2, -X3 | 3/8-24UNF-2A | 5 (.20") |

**EPXO-P4, -P6, -P7, -X4, -X6, & X7**

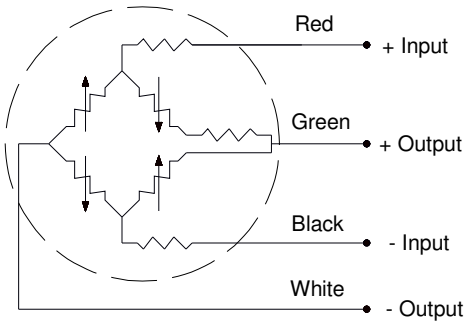



| Model | Thread "A" | "B" |
|---|---|---|
| EPXO-P4 | M10x1-6g | 5.5 (.22") |
| EPXO-P6, -P7 | M10x1-6g | 9.5 (.375") |
| EPXO-X4 | 3/8-24UNF-2A | 5.5 (.22") |
| EPXO-X6, -X7 | 3/8-24UNF-2A | 9.5 (.375") |

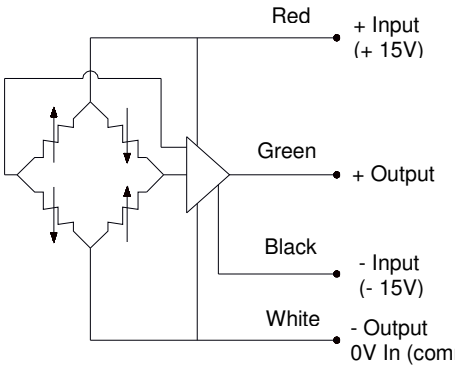
**Dim : mm (inches)**

## CONNECTIONS & INSTALLATION

**EPXO-P0, -P4, -X0 & -X4**

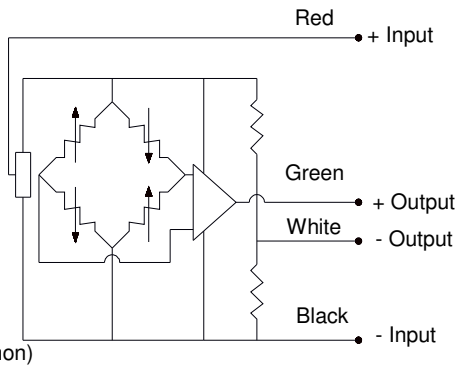



**EPXO-P2, -P6, -X2 & -X6**




It is recommended that "0V COMMON" of the power supply be grounded if consistent whit proper operation of the instrumentation system.

**EPXO-P3, -P7, -X3 & -X7**




Common mode output voltage of + 2V nom. referred to - Input

**Recommended installation torque :** FS ≤ 100 bar (1500 psi) : 1 m.N (8 In.Lbs)
FS > 100 bar (1500 psi) : 2 m.N (16 In.Lbs)

## OPTIONS AND ACCESSORIES

| OPTIONS | CODES | DESCRIPTIONS |
|---|---|---|
| Compensated Temperature Ranges | Z02 | -40°C to 60°C |
| | Z35 | 20°C to 120°C |
| | Z36 | 20°C to 150°C on type P0 & X0 and SR-P2 seal only (In/out of 350Ω) |
| | Z38 | 20°C to 200°C on type P0 & X0 and SR-P2 seal only (In/out of 350Ω) |
| | Z* | Non-standard, contact MEAS |
| Supply Voltage (12U: only for model P3, P7, X3, X7) | 12U | 8 to 16 VDC, FSO = 2.5 V with VCM = 1 V from –Output to Ground |
| | V* | Non-standard Excitation contact MEAS |
| Special Cable Length | L00F | Replace "00" with total length in feet |
| | L00M | Replace "00" with total length in meters |
| Waterproofing Cable Exit (only for models P0, P2, P3, X0, X2 and X3, sealed or absolute) | X | Short Term Waterproofing (limited to 125°C) |
| 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 EPXO | SR-P1 | Fluoro-silicone |
| | SR-P2 | Viton |

## ORDERING INFORMATION

| Model | - | Body | Pres. Ref. | - | Range & Unit[1] | | - | /Options |
|---|---|---|---|---|---|---|---|---|
| EPX0 | - | P0, P2, P3 | 1 = Gauge | - | 10B | 150P | - | /Z02, Z35, Z36, Z38 or Z* |
| | | P4, P6, P7 | 2 = Sealed | | 15B | 200P | | /12U or V* |
| | | X0, X2, X3 | 3 = Absolute | | 20B | 300P | | /L00F or L00M |
| | | X4, X6, X7 | | | 35B | 500P | | /X |
| | | | | | 70B | 1KP | | /C or RS |
| | | | | | 100B | 1.5KP | | |
| | | | | | 150B | 2KP | | |
| | | | | | 200B | 3KP | | |
| | | | | | 350B | 5KP | | |
| | | | | | 500B | 7.5KP | | |

Note 1: select ranges in BAR with body P and ranges in PSI with body X.
Examples of model construction: EPXO-P22-200B-/Z02/L3M or EPXO-X31-500P-/L6F/C

## 联系方式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