



## EPL

### SPECIFICATIONS

- ♦ Miniature surface mount
- ♦ Stainless steel diaphragm
- ♦ Easy mounting

The EPL is a surface mount pressure sensor with a stainless steel diaphragm. Available in ranges from 5 to 1000 psi (0.35 to 70 bar), EPL is easy to install on flat surfaces using elastomer or epoxy. Various compensated temperature ranges are available from -40°C up to 90°C.

## FEATURES

- Ranges 0-5 to 1,000 psi (0-0.35 to 70 bar)
- Resonant frequency 40 to 350 KHz
- CE approved

## APPLICATIONS

- Chemical processing
- Automotive test benches
- General test lab measurements

## STANDARD RANGES

| Pressure ranges |       | Pressure Reference |                   |                 | Pressure Limit | Resonant Frequency <sup>(1)</sup><br>(nom.) | Output "FSO"<br>(nom.) | CNL&H<br>(%FSO) | Thermal Zero Shift "TZS"<br>(/50°C) |
|-----------------|-------|--------------------|-------------------|-----------------|----------------|---------------------------------------------|------------------------|-----------------|-------------------------------------|
| (BAR)           | (PSI) | gage<br>(type1)    | sealed<br>(type2) | abs.<br>(type3) |                |                                             |                        |                 |                                     |
| 0.35            | 5     | •                  | •                 | •               | 10 x FS        | B0 = 60 KHz<br>D1 = 40 KHz                  | 10 mV<br>25 mV         | ± 1%            | ± 1mV                               |
| 0.7             | 10    | •                  | •                 | •               | 5 x FS         | B0 = 60KHz<br>D1 = 40 KHz                   | 20 mV<br>50 mV         | ± 1%            | ± 1mV                               |
| 1.5             | 25    | •                  | •                 | •               | 3 x FS         | B0 = 60 KHz<br>D1 = 40KHz                   | 50 mV<br>75 mV         | ± 1%            | ± 1mV                               |
| 3.5             | 50    | •                  | •                 | •               | 2 x FS         | 60 KHz                                      | 100 mV                 | ± 1%            | ± 1.5 % FSO                         |
| 7               | 100   | •                  | •                 | •               | 2 x FS         | 65 KHz                                      | 125 mV                 | ± 0.5 %         | ± 1.5 % FSO                         |
| 15              | 250   | •                  | •                 | •               | 2 x FS         | 85 KHz                                      | 125 mV                 | ± 0.5 %         | ± 1.5 % FSO                         |
| 35              | 500   | •                  | •                 | •               | 2 x FS         | 120 KHz                                     | 125 mV                 | ± 0.5 %         | ± 1.5 % FSO                         |
| 70              | 1K    |                    | •                 | •               | 2 x FS         | 170 KHz                                     | 125 mV                 | ± 0.5 %         | ± 1.5 % FSO                         |

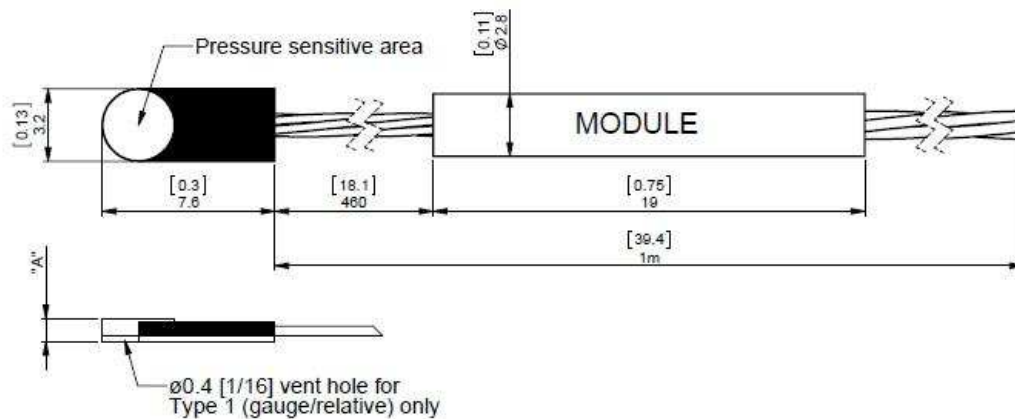
Note 1: useful frequency is 20% of Resonant Frequency

## PERFORMANCE SPECIFICATIONS

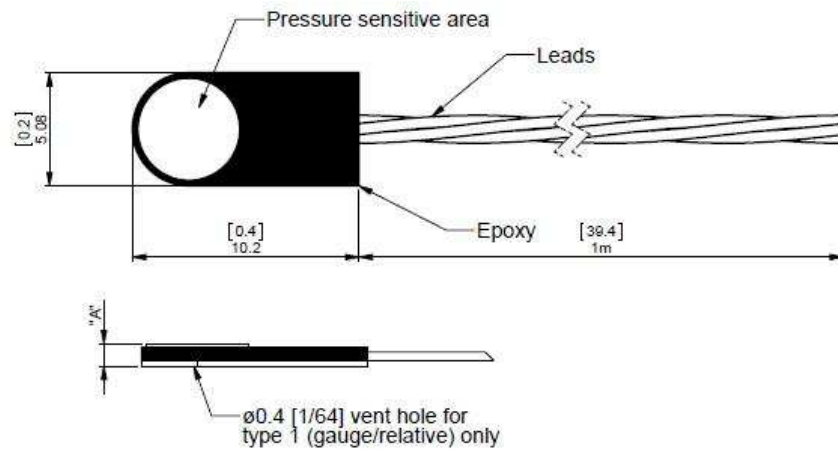
| PARAMETERS                    | VALUES                             | NOTES                                   |
|-------------------------------|------------------------------------|-----------------------------------------|
| Supply Voltage                | 10 VDC                             | See option table for other Voltages     |
| Input Resistance              | 1200Ω □ nom.                       |                                         |
| Output Resistance             | 350Ω □ nom.                        |                                         |
| Non-Repeatability             | ± 0.25 % FSO                       |                                         |
| Thermal Sensivity 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

## EPL-B0



## EPL-D1

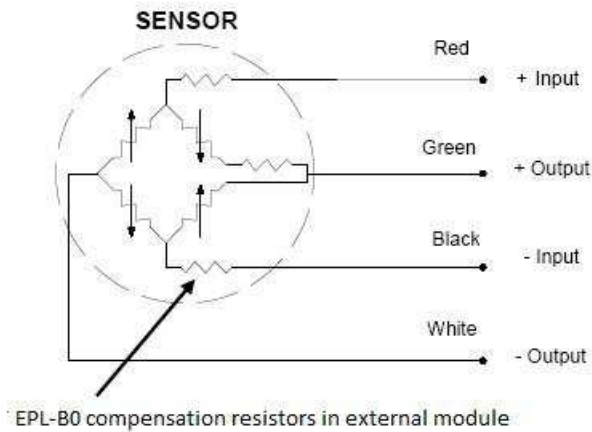


Note : EPL-D1 is internally compensated (no external module)

Dim : mm ( inches)

| FS                               | Dim. "A"           |
|----------------------------------|--------------------|
| 0.35 to 35 bar<br>(5 to 500 psi) | 1.02 mm<br>(.04")  |
| 70 bar<br>(1k psi)               | 1.65 mm<br>(.065") |

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                                                                                            |
|                                    | 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 EPL-B0 | M00F  | Replace "00" with distance between sensor and module in feet.                                          |
|                                    | M00M  | Replace "00" with distance between sensor and module in meters.                                        |
| Connector Wired to Leads or Cable  | C     | Microtech type male or equivalent (w/o mate)                                                           |
|                                    | R     | RJ Telephone type male (w/o mate)                                                                      |

## ORDERING INFORMATION

| Model | - | Body     | Pres. Ref.                              | - | Range & Unit                                             |                                                        | - | /Options                                                                                |
|-------|---|----------|-----------------------------------------|---|----------------------------------------------------------|--------------------------------------------------------|---|-----------------------------------------------------------------------------------------|
| EPL   | - | B0<br>D1 | 1 = Gauge<br>2 = Sealed<br>3 = Absolute | - | 0.35B<br>0.7B<br>1.5B<br>3.5B<br>7B<br>15B<br>35B<br>70B | 5P<br>10P<br>25P<br>50P<br>100P<br>250P<br>500P<br>1KP | - | /Z0, Z1, Z2, Z4or Z*<br>/V1 thru V10 or V*<br>/L00F or L00M<br>/M00F or M00M<br>/C or R |

Example of model construction: EPL-B01-7B-/Z1/V5/L3M/M2M

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