

# LOW-COST SILICON PRESSURE SENSOR WITH MILLIVOLT OUTPUT

0-0.3 to 0-100 psi  
0-0.02 to 0-6.9 bar

## PX137 Series

- ✓ Available for Differential, Gage, or Absolute Measurement
- ✓ Precision Millivolt Output
- ✓ Precise Temperature Compensation

The PX137 Series pressure transducers use state-of-the-art micro-machined silicon pressure sensors in conjunction with stress-free packaging techniques to provide highly accurate, temperature-compensated pressure measurements for the most demanding applications.

## SPECIFICATIONS

**Excitation Voltage:** 12 Vdc (16 max)

**Linearity and Hysteresis:**  $\pm 0.1\%$  FS typical/ $0.5\%$  max ( $0.5\%/1\%$  for 0.3 psi range)

**Repeatability:**  $\pm 0.1\%$  FS typical/ $0.3\%$  max

**Zero Balance:**  $\pm 1$  mV ( $\pm 3$  mV for 0.3 psi range)

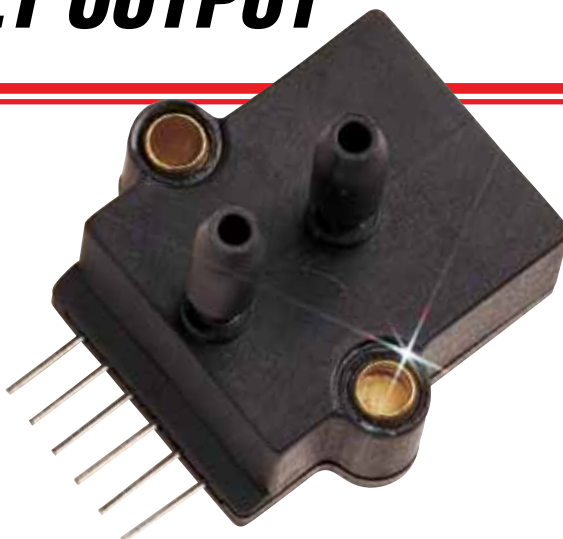
**Input Resistance:** 10 k $\Omega$

**Storage Temp:** -40 to 125°C (-40 to 257°F)

**Operating Temp:** 0 to 70°C (32 to 158°F)

**Span Temp Effects:**  
 $\pm 1.5\%$  FS 0 to 50°C (32 to 122°F)  
 $\pm 0.5\%$  FS 50 to 70°C (122 to 158°F)

PX137-005DV,  
shown larger  
than actual size.



**Zero Temp Effects:**  
 $\pm 0.8$  mV 0 to 50°C (32 to 122°F)  
 $\pm 0.2$  mV 50 to 70°C (122 to 158°F)

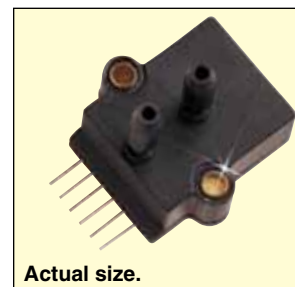
**For 0.3 psi Range:**  
 $\pm 1.0$  mV 0 to 50°C (32 to 122°F)  
 $\pm 0.5$  mV 50 to 70°C (122 to 158°F)

**Proof Pressure:**  $>3\times$  FS pressure

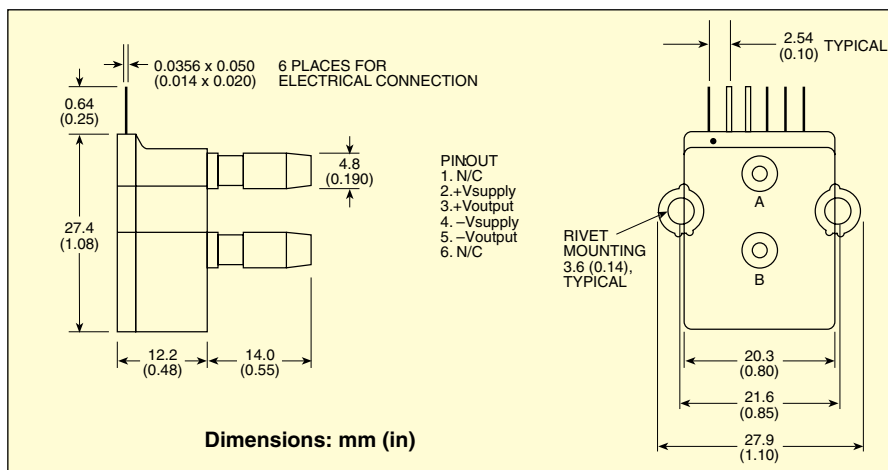
**Burst Pressure:**  $>5\times$  FS pressure

**Common-Mode Pressure:** 50 psi

**Media Compatibility:** For use with gases compatible with silicon, glass-filled nylon and alumina ceramic



Actual size.



## To Order

GAGE/DIFFERENTIAL PRESSURE RANGES		MODEL NO.	FS OUTPUT (@ 12 V EXC.)	COMPATIBLE METERS
$\pm 0.3$ psi (8.3 in H <sub>2</sub> O)	$\pm 0.02$ bar (2 kPa)	PX137-0.3DV	18 $\pm 2$ mV	DP25B-S, DP41-S
$\pm 1$ psi	$\pm 0.07$ bar	PX137-001DV	8 $\pm 1$ mV	DP25B-S, DP41-S
$\pm 5$ psi	$\pm 0.34$ bar	PX137-005DV	60 $\pm 2.5$ mV	DP25B-S, DP41-S
$\pm 15$ psi	$\pm 1.0$ bar	PX137-015DV	90 $\pm 5$ mV	DP25B-S, DP41-S
$\pm 30$ psi	$\pm 2.1$ bar	PX137-030DV	90 $\pm 5$ mV	DP25B-S, DP41-S
$\pm 100$ psi	$\pm 6.9$ bar	PX137-100DV	100 $\pm 5$ mV	DP25B-S, DP41-S
ABSOLUTE PRESSURE RANGES				
15 psia	1.0 bar	PX137-015AV	90 $\pm 5$ mV	DP25B-S, DP41-S

Comes complete with operator's manual.

**Ordering Example:** PX137-015AV, millivolt output silicone pressure sensor with 0 to 15 psi absolute pressure range.



MILLIVOLT OUTPUT  
PRESSURE TRANSDUCERS

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