

LOW-VOLTAGE AMPLIFIED OUTPUT TRANSDUCER FOR 5 Vdc POWER

± 1.0 to ± 30 psi
 ± 0.07 to ± 2 bar

PX139 Series

- ✓ Available for Differential, Gage, or Absolute Measurement
- ✓ Precision 4V Output Span
- ✓ Precise Temperature Compensation
- ✓ For Dry Gas
- ✓ 5V Excitation

The PX139 Series pressure transducer uses state-of-the-art micro-machined silicon sensors with stress-free packaging techniques to provide highly accurate, temperature-compensated pressure measurements for the most demanding applications. Designed to operate from a 5 Vdc power source, the PX139 provides a calibrated 4V output span of 0.25 to 4.25V.

SPECIFICATIONS

Excitation Voltage: 5 Vdc @ 2 mA

Output: 0.25 to 4.25 Vdc

Span: 4V ± 0.1 V

Linearity and Hysteresis: $\pm 0.1\%$ FS typical, 0.5% max (0.5% typ. 1% max for ± 0.3 psi range)

Repeatability: $\pm 0.3\%$ FS

Zero Balance: 2.25 ± 0.1 Vdc diff.; 0.25 ± 0.1 Vdc abs.

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

Compensated Temp Range: 0 to 50°C (32 to 122°F)

Zero Temp Effects: $\pm 0.5\%$ FS ($\pm 1\%$ FS for 0.3 psi)

Span Temp Effects: $\pm 0.5\%$ FS ($\pm 1\%$ FS for 0.3 psi)

Proof Pressure: $>3\times$ FS pressure

Burst Pressure: $>5\times$ FS pressure

Common Mode Press: 50 psi

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

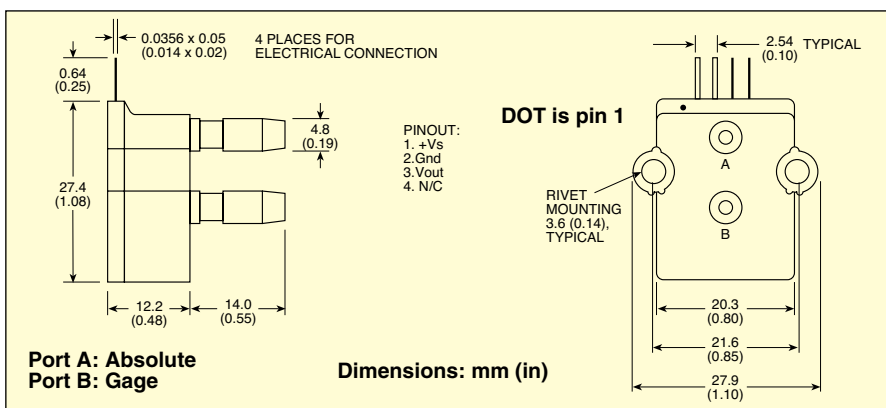
Mating Connector: CX136-4 (sold separately)



Actual size.



PX139-001D4V, shown 2.5x larger than actual size.



To Order Visit omega.com/px139 for Pricing and Details

GAGE/DIFFERENTIAL PRESSURE		MODEL NO.	COMPATIBLE METERS
± 1 psi	0.069 bar	PX139-001D4V	DP25B-E, DP41-E
± 5 psi	0.34 bar	PX139-005D4V	DP25B-E, DP41-E
± 15 psi	1.0 bar	PX139-015D4V	DP25B-E, DP41-E
± 30 psi	2.1 bar	PX139-030D4V	DP25B-E, DP41-E
ABSOLUTE PRESSURE RANGES			
0 to 15 psia	0 to 1.0 bar	PX139-015A4V	DP25B-E, DP41-E
0 to 30 psia	0 to 2.1 bar	PX139-030A4V	DP25B-E, DP41-E

Comes complete with operator's manual.

Ordering Example: PX139-015A4V, amplified 0 to 15 psia output transducer.

ACCESSORY

MODEL NO.	DESCRIPTION
CX136-4	Mating connector for PX139 series transducers

