

VACUUM PRESSURE TRANSDUCERS AND TRANSMITTERS

ALL STAINLESS STEEL WETTED PARTS FOR INDUSTRIAL APPLICATIONS

0 to -1 Bar Vacuum
-1 to +1 Bar Comound

**EX. Stock
Delivery!**

PXM309 VAC Series



- ✓ 5-Point Traceable Calibration Certificate
- ✓ High Accuracy, $\pm 0.25\%$ FS BSL (Linearity, Hysteresis and Repeatability)
- ✓ 1% Total Error Band
- ✓ Reverse Polarity and Over Voltage Protected
- ✓ -20 to 85 °C Compensated Temperature
- ✓ 0 to 10 Vdc or 4 to 20 mA Output
- ✓ Terminations: Cable, mini DIN or M12 Connector
- ✓ G 1/4 Male Vacuum Fitting
- ✓ IP65 Environmental Rating



Cable style.

PXM309-001CGI, -1 to +1 bar, 4-20mA output, shown smaller than actual size.



mini DIN style.

PXM319-001V10V, -1 to 0 bar, 10-0V output. Shown smaller than actual size.



M12 connector style.

PXM359-001VI, -1 to 0 bar, 20-4mA output. Shown smaller than actual size.

ACCESSORIES



DP25B, shown smaller than actual size.



DP41-B, shown smaller than actual size.

OMEGA's PXM309 Series industrial Vacuum pressure transducers use a precision micromachined silicon sensor protected by a stainless steel diaphragm. A thin film of oil transfers the vacuum and assures the high accuracy and stability of the sensor. This precision technique produces an accuracy of 0.25% FS BSL @25°C and a total error band of 1%.

PXM309: 2 m cable IP67 rating



PXM319: micro DIN, absolute IP65 rating



PXM359: M12 connector IP65 rating



B

SPECIFICATIONS

Supply Voltage

Reverse polarity and over voltage protected

0 to 10 Vdc Output: 15 to 30 Vdc at 10 mA

4 to 20 mA: 9 to 30 Vdc

Static Accuracy: $\pm 0.25\%$ FS BSL at 25°C (includes linearity, hysteresis and repeatability)

Long Term Stability (1 yr): $\pm 0.25\%$ FS

Total Error Band¹: $\pm 1\%$ gauge

Note 1: Total error band includes all accuracy errors, thermal errors, span and zero tolerances.

Isolation (Body to Any Lead):

1 M Ω at 25 Vdc

Pressure Cycles: 1 x 10⁷ full scale cycles

Pressure Overload: 3 x rated pressure or 1.38 bar whichever is greater

Burst Pressure

4 x rated pressure

Compensated Temperature

-20 to 85°C

Operating Temperature: -40 to 85°C

Response Time: 1 mS

Bandwidth: DC to 1 kHz type

Pressure Connection: G ¼ Male

Wetted Parts: 316SS

CE Compliant: EC55022, EC55011
Emissions Class A&B

IEC: 61000-2,-3,-4,-5,-6,&-9

Shock: 50 g 11 mSec half sine shock

Vibration: ± 20 g

Electrical Connections

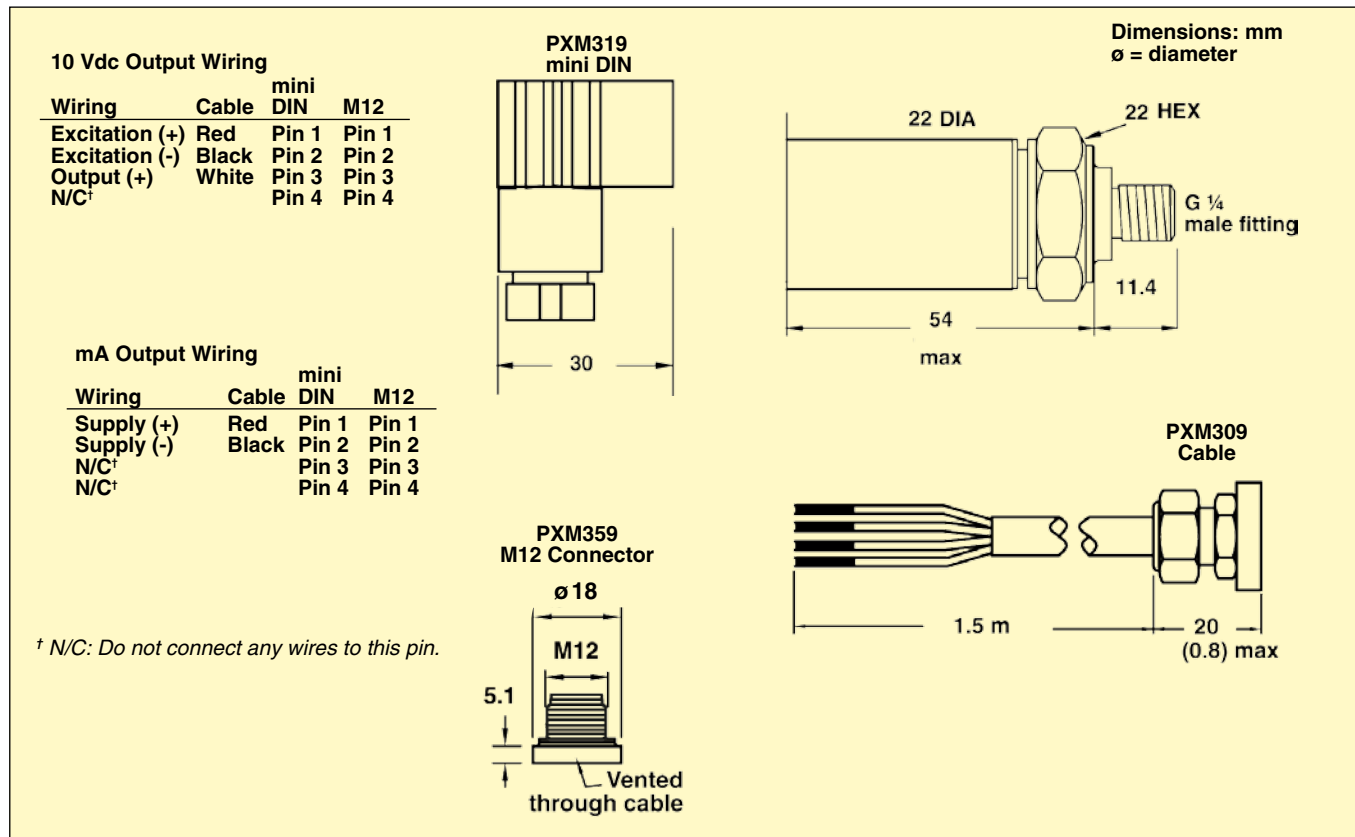
PXM309: 1.5 m 2 or 3-conductor cable, mA or 10V outputs, respectively

PXM319: mini DIN connector with mating connector included

PXM359: M12 4-pin connector

ROHS Compliant: Yes

Weight: Typical 150 g depending upon configuration



To Order (Specify Model Number)

RANGE	CABLE MODELS PXM309 SERIES	MINI DIN MODELS PXM319 SERIES	M12 MODELS PXM359 SERIES	COMPATIBLE METERS
VACUUM				
0 to -1 bar Vac	PXM309-001V	PXM319-001V	PXM359-001V	DP25B-E, DP41B
COMPOUND				
-1 to +1 bar Vac	PXM309-001CG	PXM319-001CG	PXM359-001CG	DP25B-E, DP41B

ACCESSORIES

MODEL NO.	DESCRIPTION
CA-359-4PC22-2M	2 m vented cable with mating M12 connector and flying leads for PXM359
CA-359-4PC22-5M	5 m vented cable with mating M12 connector and flying leads for PXM359

Comes complete with 5-point traceable calibration certificate

[*] Insert "10V" for 0 to 10 Vdc output or "I" for 4 to 20 mA output