**Electrical Connection:**
See Custom Configurations

**Pressure Port:**
See Custom Configurations

**Mating Connector (Style 1):**
PTS06A-10-6S (sold separately)

**Weight:**
225 g (8 oz) max

**Electrical Connection:**

- **Excitation:**
  12 to 40 Vdc unregulated
  
- **Output (FS):**
  5 Vdc ±0.1 Vdc ±10% adj
  
- **Zero Balance:**
  0 Vdc ±0.1 Vdc ±5% adj
  
- **Input Current:**
  20 mA max with no load
  
- **Output Resistance:**
  100 Ω max

**Insulation Resistance:**
100 M Ω @ 45 Vdc between all pins shorted together and case

**Electrostatic Discharge:**
Protected to 15 kV max

**Sensing Element:**
4-active-arm bridge using sputter-deposited thin-film elements

**Accuracy:**
Combined linearity, hysteresis and repeatability:
±0.10% FS (BFSL) <70 bar (<1000 psi)
±0.15% FS 70 bar (1000 psi) and above

**Specifications:**

- **Vibration Sensitivity:**
  At 20 g peak, sinusoidal vibration from 10 Hz to
  2000 Hz (½ D.A.), the output shall not exceed 0.04% FS/g for 1 bar (15 psi)
  range, decreasing to 0.003% FS/g for
  70 bar (1000 psi) and above

- **Natural Frequency:**
  5 kHz for 1 bar (15 psi), increasing
  logarithmically to 50 kHz for 5000 psi

- **Shock:**
  Qualification level of 100 g,
  11 ms half sine wave without damage

- **Operating Temp Range:**
  -54 to 121°C (-65 to 250°F)

- **Compensated Temp Range:**
  -18 to 82°C (0 to 180°F)

- **Thermal Effects (Over the Compensated Range):**
  Span: ±0.015% FS/°F (0.027%/°C)
  Zero: ±0.015% FS/°F (0.027%/°C)

- **Proof Pressure:**
  2 times rated pressure or 1000 bar (15,000 psi), whichever is less,
  will not cause changes in performance
  beyond the specified tolerance

- **Burst Pressure:**
  3 times rated pressure or 1300 bar (20,000 psi),
  whichever is less, will not cause rupture
  of the pressure containment cavity

- **Wetted Parts:**
  17-4 PH or 15-5 PH stainless steel

**Dimensions:**

- **Dimensions:**
  mm (inch)

**Wiring Code:**

- **DIN Pin**
  1 A RD + Input
  2 B YE + Output
  3 C WT Common
  4 D BL Common
  5 E No Connection
  6 F No Connection

**PX5500/PXM5500 Series**

- **High 0.1% Accuracy**
- **Solid State Reliability**
- **Sputtered Strain Gage Design**
- **High Shock and Vibration Resistance**
- **Low Drift**

**Applications**

- **R&D/Engineering Test Laboratories**
- **Functional Test Systems**
- **Production Testing**
- **Flight Testing**
- **Gas Turbine and Engine Test Standards**
- **Hydraulic Systems**
- **Custody Transfer Measurements**

**Omega's** PX5500/PXM5500 transducer series provides high performance in demanding industrial and research applications where accuracy, reliability, and price are important. These transducers have a 10-year MTBF rate and are stable to 0.1% of FSO over an 18-month period. This translates into less downtime, fewer test reruns, more time between calibrations, and high confidence in your pressure data. When recalibration is impossible, relying on the high stability of the PX5500/PXM5500 Series transducers may be the only cost-effective way to obtain pressure data over the long term. OMEGA's thin-film technology makes this precision performance possible. The strain gages and associated parts are sputter-deposited directly onto the pressure sensing element, eliminating the need for adhesives. The resulting molecular bond between the sensing element and the strain gage ensures virtually no shifting, drifting, or "creep" in the performance of the transducer. The micro-geometry design of the PX5500/PXM5500 sensing element affords a very small, low-mass sensor that reduces effects of mechanical vibration and shock. The PX5500/PXM5500 gives you accuracy, reliability, and stability at competitive prices.
STANDARD CUSTOM CONFIGURATIONS

<table>
<thead>
<tr>
<th>PX5500 SERIES</th>
<th>PRESSURE PORT</th>
<th>ELECTRICAL CONNECTION</th>
<th>RANGE</th>
<th>UNITS</th>
<th>OUTPUT</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>¼-27 NPT male</td>
<td>015 psi</td>
<td>S,G,A</td>
<td>Base price</td>
<td>CAL11 = 11-pt cal</td>
<td>+ cost</td>
</tr>
<tr>
<td>B</td>
<td>¼-27 NPT female</td>
<td>025 psi</td>
<td>S,G,A</td>
<td>5T = 0 to 5 Vdc</td>
<td>( ) ft = Optional cable length in feet.</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>¼-18 NPT male</td>
<td>050 psi</td>
<td>S,G,A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>¼-18 NPT female</td>
<td>100 psi</td>
<td>S,G,A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L</td>
<td>MS33656-4</td>
<td>250 psi</td>
<td>S,G,A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>MS33649-4</td>
<td>500 psi</td>
<td>S,G,A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 0 = 0.6 m (2') cable
- add cost per/ft over 0.6 m (2')
- 1 = PTIH-10-6P connector (or equal, no charge)
- Mating connector (sold separately), order PTS06A-10-6S
- 6 = mini DIN connector (no charge)

To order a custom configuration:
1. Select a pressure port
2. Select electrical connection
3. Select a pressure range
4. Select pressure units – Absolute, Gage or Sealed gage
5. Select output
6. Select options and agency approvals

Ordering Examples: PX5500A1-015A5T, ¼-27 NPT male pressure port, twist-lock style connector, 15 psi absolute pressure range and 0 to 5 V. PTS06A-10-6S, mating connector (sold separately).
PX5500M1-10KG5T, MS33649-4 female pressure port, twist-lock style connector, 10,000 psi gage pressure range and 0 to 5 Vdc output. PTS06A-10-6S, mating connector (sold separately).

METRIC CUSTOM CONFIGURATIONS

<table>
<thead>
<tr>
<th>PX5500 SERIES</th>
<th>PRESSURE PORT</th>
<th>ELECTRICAL CONNECTION</th>
<th>RANGE (BAR)</th>
<th>UNITS</th>
<th>OUTPUT</th>
<th>OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA</td>
<td>G¼B Male</td>
<td>1.0</td>
<td>S,G,A</td>
<td>Base price</td>
<td>CAL11 = 11-point calibration certificate</td>
<td>PXM5500</td>
</tr>
<tr>
<td>MB</td>
<td>G¼B Female no charge</td>
<td>1.6</td>
<td>S,G,A</td>
<td>5T = 0 to 5 Vdc</td>
<td>( ) m = Optional cable length in meters</td>
<td></td>
</tr>
<tr>
<td>MC</td>
<td>G¼B Male cost</td>
<td>4.0</td>
<td>S,G,A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MD</td>
<td>G¼B Female no charge</td>
<td>6.0</td>
<td>S,G,A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 0 = 0.6 m (2') cable (std)
- add cost per/m over 0.6 m (2')
- 1 = PTIH-10-6P connector (or equal, no charge)
- Mating connector (sold separately), order PTS06A-10-6S
- 6 = mini DIN connector (no charge)

Visit us online for additional options including extended compensated temperatures.

Ordering Examples: PXM5500MB0-010BAR5ST, 10 bar sealed gage pressure transducer with G¼B female connection and 0.6 m (2') cable termination.
PXM5500MD1-010BARSST, 10 bar absolute pressure transducer with G¼B female connection and twist-lock connector. PTS06A-10-6S, mating connector (sold separately).
**STANDARD MODELS**

**To Order**

**MODELS WITH 0 TO 5 VDC OUTPUT, MS33656-4 CONNECTION, INTEGRAL CONNECTOR**

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MODEL NO.</th>
<th>COMPATIBLE METERS**</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 15 psi</td>
<td>PX5500L1-015A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 25 psi</td>
<td>PX5500L1-025A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 50 psi</td>
<td>PX5500L1-050A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 100 psi</td>
<td>PX5500L1-100A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
</tbody>
</table>

**ABSOLUTE PRESSURE (ALL RANGES AVAILABLE IN ABSOLUTE PRESSURE)**

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MODEL NO.</th>
<th>COMPATIBLE METERS**</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 15 psi</td>
<td>PX5500L1-015A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 25 psi</td>
<td>PX5500L1-025A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 50 psi</td>
<td>PX5500L1-050A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 100 psi</td>
<td>PX5500L1-100A5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
</tbody>
</table>

**GAGE PRESSURE (ALL RANGES AVAILABLE IN SEALED GAGE PRESSURE)**

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MODEL NO.</th>
<th>COMPATIBLE METERS**</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 1 bar</td>
<td>PX5500L1-010BAR5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 1.6 bar</td>
<td>PX5500L1-1.60BAR5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 4 bar</td>
<td>PX5500L1-040BAR5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 6 bar</td>
<td>PX5500L1-060BAR5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 10 bar</td>
<td>PX5500L1-100BAR5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 16 bar</td>
<td>PX5500L1-160BAR5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 25 bar</td>
<td>PX5500L1-250BAR5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 40 bar</td>
<td>PX5500L1-400BAR5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
</tbody>
</table>

Comes complete with 5-point NIST-traceable calibration. **Visit us online for compatible meters.

[**] Insert “0” for 0.6 m cable, “1” for twist-lock connector or “6” for mini-DIN connector.

To order absolute pressure transducers, change “G” in model number to “A” (no extra charge).

To order sealed gage transducers, change “G” in model number to “S” (no extra charge).

**Ordering Examples:** PX5500L1-100A5T, 100 psi absolute pressure transducer with 0 to 5 Vdc output, PTIH-10-6P electrical connection, and MS33656-4, male pressure port. PTS06A-10-6S, mating connector (sold separately).

**METRIC MODELS**

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MODEL NO.</th>
<th>COMPATIBLE METERS**</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 1 bar</td>
<td>PX5500MC[&quot;)-001BARG5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 1.6 bar</td>
<td>PX5500MC[&quot;)-1.60BARG5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 4 bar</td>
<td>PX5500MC[&quot;)-040BARG5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 6 bar</td>
<td>PX5500MC[&quot;)-060BARG5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 10 bar</td>
<td>PX5500MC[&quot;)-100BARG5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 16 bar</td>
<td>PX5500MC[&quot;)-160BARG5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 25 bar</td>
<td>PX5500MC[&quot;)-250BARG5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 40 bar</td>
<td>PX5500MC[&quot;)-400BARG5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
<tr>
<td>0 to 60 bar</td>
<td>PX5500MC[&quot;)-600BARG5T</td>
<td>DP41-E, DP25B-E, DP24-E</td>
</tr>
</tbody>
</table>

Comes complete with 5-point NIST-traceable calibration. **Visit us online for compatible meters.

[**] Insert “0” for 0.6 m cable, “1” for twist-lock connector or “6” for mini-DIN connector.

To order absolute pressure models, replace “G” in model number with “A” (no extra charge).

To order sealed gage models, replace “G” in model number with “S” (no extra charge).

**Ordering Examples:** PX5500MC-006BAR5T, 60 bar sealed gage transducer with 0 to 5 Vdc output, mini DIN electrical connection and G½ male pressure port. PX5500MC-010BAR5T, 10 bar absolute pressure transducer with 0 to 5 Vdc output, 0.6 m (2’) cable connection and G½ male pressure port.

**ACCESSORY**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTS06A-10-6S</td>
<td>Mating connector for PX5500/PXM5500 Series units with twist-lock connector</td>
</tr>
</tbody>
</table>