

# PT46X5 Pressure Sensors

IDEAL FOR GENERAL PURPOSE  
MELT PRESSURE MEASUREMENTS



## Description

The PT46X5 Series transmitter is a  $\pm 0.5\%$  sensor ideal for general purpose melt pressure measurements requiring simple installation, repeatability and reliability. The PT46X5 transmitters provide the industry standard 0 - 5 Vdc amplified signal designed to work with DCS and PLCs, 1 - 6 Vdc outputs are also available. The PT46X5 comes equipped with zero and span pots to adapt the transmitter to process conditions. Optional thermocouple or RTD configurations are available to provide melt temperature. The PT46X5 features a 1/2-20 UNF thread for installation in standard transducer mounting holes and can be supplied with a variety of electrical connections.

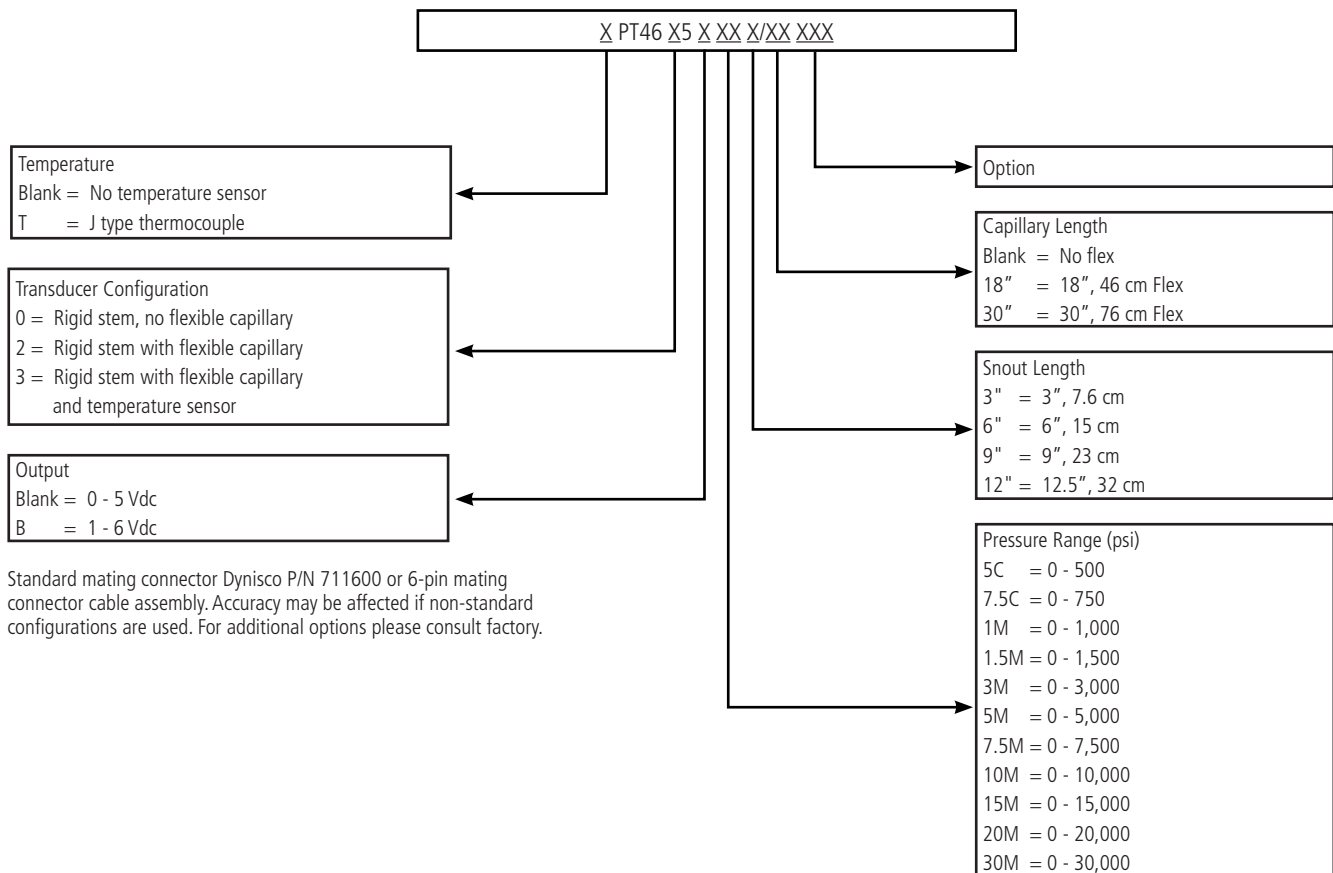
## Features

- Adjustable zero and span
- Accuracy better than  $\pm 0.5\%$
- DyMax® coated stainless steel wetted parts
- 0 - 5 Vdc and 1 - 6 Vdc outputs
- 0 - 500 to 0 - 30,000 psi
- Internal 80% shunt calibrations

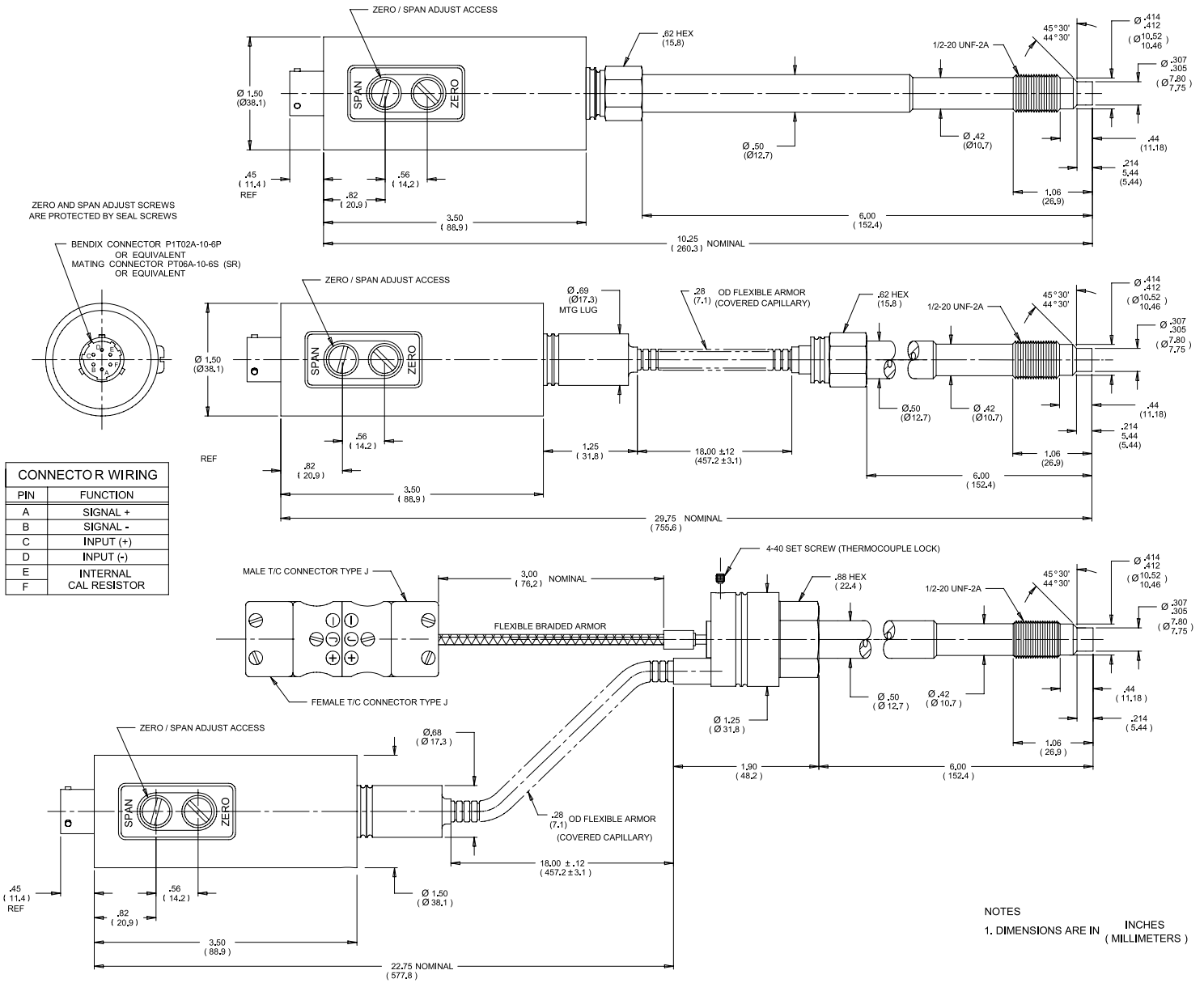
Performance Characteristics	
<b>Outputs:</b>	
<b>PT46X5:</b>	0 - 5 Vdc
<b>PT46X5B:</b>	1 - 6 Vdc
<b>Input Voltage:</b>	11 - 36 Vdc
<b>Accuracy:</b>	±0.5% FSO combined error (Including Linearity, Repeatability & Hysteresis)
<b>Repeatability:</b>	±0.2% FSO
<b>Configuration:</b>	Four-arm bonded foil Wheatstone bridge strain gage
<b>Load Resistance:</b>	2,000 Ohms minimum
<b>Over Pressure:</b>	2X FSO or 35,000 psi, (whichever is less)
<b>Zero Balance Adjustment Range:</b>	±15%
<b>Span Adjustment Range:</b>	±15%
<b>Internal Shunt Calibration (R-Cal):</b>	80% FSO ±0.5%

Temperature & Mechanical Characteristics	
<b>Max Diaphragm Temperature:</b>	750°F (400°C)
<b>Zero Shift (due to temperature change):</b>	25 psi/100°F Typical (45 psi/100°C)
<b>Electronics Operating Temperature:</b>	-20° to 185°F (-29° to 85°C)
<b>Zero Shift (due to temperature change):</b>	± 0.05% FS/°F max (± 0.10% FS/°C max)
<b>Span Shift (due to temperature change):</b>	± 0.02% FS/°F max (± 0.04% FS/°C max)
<b>Mounting Torque:</b>	500 inch/lbs. max
<b>Standard Wetted Parts:</b>	Dymax® coated 15-5 PH SST

### Ordering Guide for PT46X6 Series



# Dimensions



All dimensions are inches (mm) unless otherwise specified.  
 ©2016. Dynisco reserves the right to make changes without notice.  
 Refer to [www.dynisco.com](http://www.dynisco.com) for access to Operator Manual and other support documentation.  
 DSPT46X6  
 Rev: 0117



[www.dynisco.com](http://www.dynisco.com)

**Dynisco**  
 38 Forge Parkway  
 Franklin, MA 02038  
 USA  
 Hotline 1-800-Dynisco  
 www.dynisco.com  
 Phone +1 508 541 9400  
 Fax +1 508 541 6206  
 Email infoinst@dynisco.com

**Dynisco Europe, GmbH**  
 Pfaffenstr. 21  
 74078 Hellbronn  
 Germany  
 Phone +49 7131 297 0  
 Fax +49 7131 297 166  
 Email dyniscoeurope@dynisco.com

**Dynisco Shanghai**  
 Building 7A, No. 568  
 Longpan Rd Malu  
 Jiading, 201801 China  
 Phone +86 21 34074072-819  
 Toll Free +86 400 728 9117  
 Fax +86 21 34074025