Dynisco

From lab to production,
providing a window into the process

Dyn-X-V Melt Pressure Sensors

Ideal For General Purpose Melt Pressure Measurements

Description

The DYN-X-V Series transmitter is a ±1.0% sensor ideal for general purpose melt pressure measurements requiring simple installation, repeatability and reliability. The DYN-X-V transmitters provide the industry standard 0 - 10 Vdc amplified signal designed to work with DCS and PLCs. The DYN-X-V 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 DYN-X-V 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 ±1.0%
- DyMax® coated stainless steel wetted parts
- 0 - 10 Vdc outputs
- 0 - 500 to 0 - 10,000 psi
- Internal 80% shunt calibrations

Performance Characteristics	
Output:	0 - 10 Vdc
Input Voltage:	16 - 36 Vdc
Combined Error:	±1.0% FSO, (Including Linearity, Repeatability & Hysteresis)
Repeatability:	±0.2%FSO
Configuration:	Four-arm bonded foil Wheat-stone bridge strain gage
Load Resistance:	2,000 Ohms minimum
Over Pressure:	2 X FSO or 35,000 psi (whichever is less)
Zero Balance Adjustment Range:	±15%
Span Adjustment Range:	±15%
Internal Shunt Calibration (R-Cal):	80% FSO

Temperature & Mechanical Characteristics	
Max Diaphragm Temperature:	750ºF (400ºC)
Zero Shift (due to temperature change):	25 psi/100ºF Typical (45 psi/100ºC)
Electronics Operating Temperature:	-20ºF to 160ºF (-29ºC to 71ºC)
Zero Shift (due to temperature change):	+/- 0.05% FS/ºF max (+/- 0.10% FS/ºC max)
Span Shift (due to temperature change):	+/- 0.02% FS/ºF max (+/- 0.04% FS/ºC max)
Mounting Torque:	500 inch/lbs. maximum
Standard Wetted Parts:	Dymax® coated 15-5 PH SST

Ordering Guide for Dyn-X-V Melt Pressure Sensors

DYN X V XX X/XX XX XXX

Pressure Range (psi)
5C = 0 - 500
7.5C = 0 - 750
1M = 0 - 1,000
1.5M = 0 - 1,500
3M = 0 - 3,000
5M = 0 - 5,000
7.5M = 0 - 7,500
10M = 0 - 10,000

Option

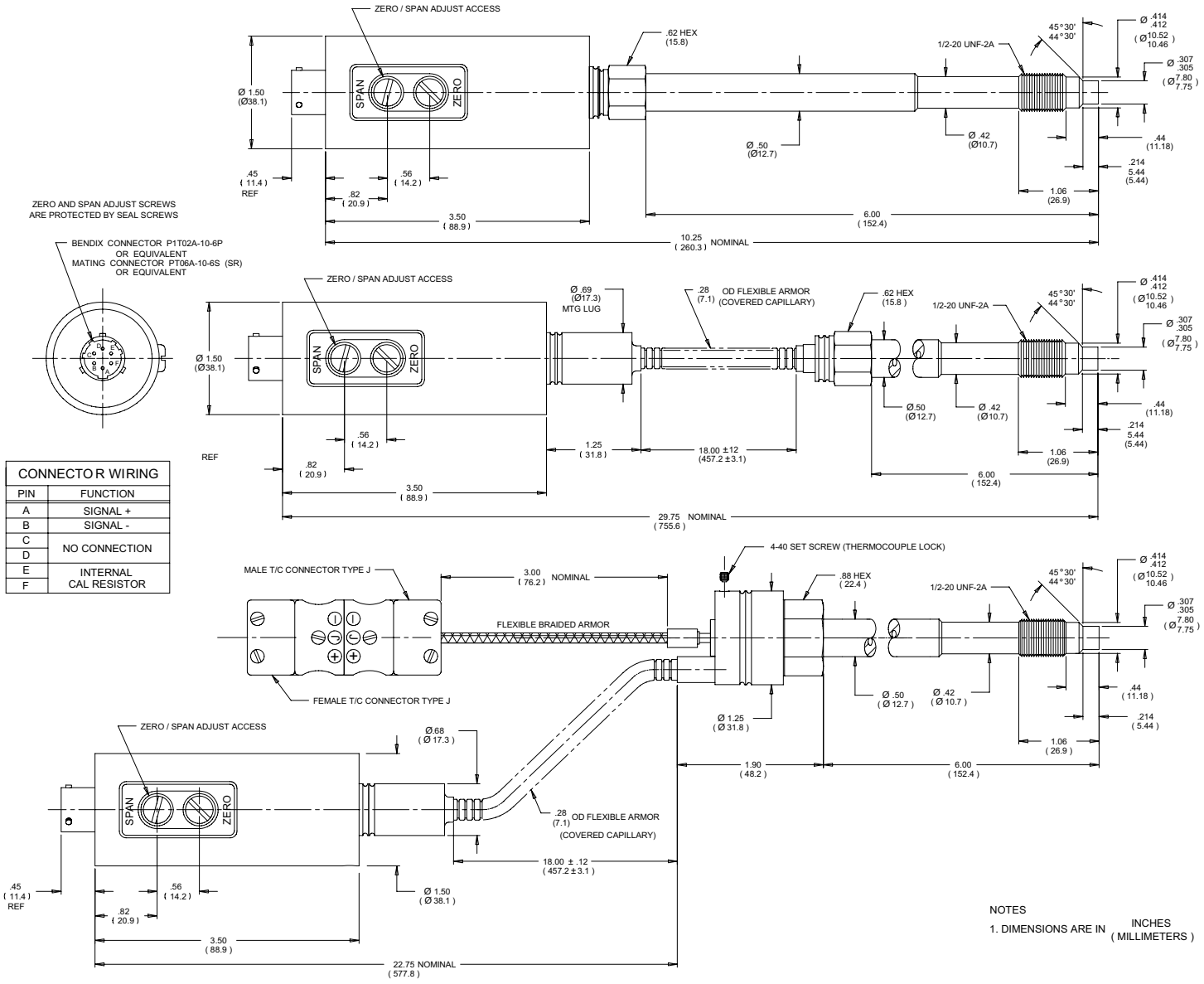
Temperature Sensor
blank = None
TC = Single J TC with 3" Flex

Stem Length
blank = no flex
18" = 18", 46 cm Flex
30" = 30", 76 cm Flex

Snout Length
3" = 3", 7.6 cm
6" = 6", 15 cm
9" = 9", 23 cm
12" = 12.5", 32 cm

Standard mating connector Dynisco P/N 711600 or 6-pin mating connector cable assembly. Accuracy may be affected if non-standard configurations are used. For additional options please consult factory.

Dimensions



CONNECTOR WIRING	
PIN	FUNCTION
A	SIGNAL +
B	SIGNAL -
C	NO CONNECTION
D	
E	INTERNAL CAL RESISTOR
F	

NOTES
1. DIMENSIONS ARE IN INCHES (MILLIMETERS)

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

Dynisco

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
Pfaffemstr. 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