



## MINIATURE RUGGEDIZED IS® PRESSURE TRANSDUCER

### XTL-375 (M) SERIES

- Easy Installation
- Patented Leadless Technology VIS®
- High Natural Frequency
- Intrinsically Safe Applications Available (i.e. IS-XTL-375)



The XTL-375 Series features Kulite's Patented Leadless Technology, is extremely rugged with good high frequency performance and is simple to install.



**OPTIONAL CONNECTOR VERSION HERMETICALLY SEALED**

PIN	DESIGNATION	PTIH-8-4P CONNECTOR
A	+ INPUT	
B	- INPUT	
C	+ OUTPUT	
D	- OUTPUT	

NOT AVAILABLE ON DIFFERENTIAL UNIT

CABLE STRAIN RELIEF  
PRESSURE REFERENCE TUBE .030 X 1" LONG (7.6 X 25.4) FOR PSIG & PSID UNITS  
4 COND. # 30 AWG SHIELDED CABLE 30" (762) LONG  
.56 DIA. (14.2)  
.625 DIA. (15.9)  
HEX PROFILE AFTER CRIMPING  
.66 NOM. (16.8)  
.43 (10.9)  
.32 (8.1)  
.17 (4.3) NOM.  
.32 NOM. (8.1)  
"T"  
O-RING .301 I.D. X .064 C.S. (7.6 I.D. X 1.6 C.S.)  
LOCKWIRE HOLES .040 DIA. (1.0) (2) PLC'S  
5/8 HEX (15.9)  
"B" SCREEN  
"M" SCREEN OPTIONAL

P/N	"T"
375	3/8-24 UNJF-3A
375M	M 10 x 1

COLOR	DESIGNATION
RED	+ INPUT
BLACK	- INPUT
GREEN	+ OUTPUT
WHITE	- OUTPUT

CONSULT FACTORY FOR SPECS. ON SEALED GAGE

<b>INPUT</b>	0.35	0.7	1.7	3.5	7	17	35	70	140 BAR
Pressure Range	5	10	25	50	100	250	500	1000	2000 PSI
Operational Mode	Absolute, Gage, Sealed Gage, Differential					Absolute, Sealed Gage			
Over Pressure	2 Times Rated Pressure to a Maximum of 3000 PSI (210 BAR)								
Burst Pressure	3 Times Rated Pressure to a Maximum of 3000 PSI (210 BAR)								
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)								
Rated Electrical Excitation	10 VDC/AC								
Maximum Electrical Excitation	15 VDC/AC								
Input Impedance	1000 Ohms (Min.)								
<b>OUTPUT</b>									
Output Impedance	1000 Ohms (Nom.)								
Full Scale Output (FSO)	100 mV (Nom.)								
Residual Unbalance	± 5 mV (Typ.)								
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)								
Resolution	Infinitesimal								
Natural Frequency (KHz) (Typ.)	150	175	240	300	380	550	700	1000	1400
Acceleration Sensitivity % FS/g Perpendicular	1.5x10 <sup>-3</sup>	1.0x10 <sup>-3</sup>	5.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	1.5x10 <sup>-4</sup>	1.0x10 <sup>-4</sup>	6.0x10 <sup>-5</sup>	4.5x10 <sup>-5</sup>	2.0x10 <sup>-5</sup>
Transverse	2.2x10 <sup>-4</sup>	1.4x10 <sup>-4</sup>	6.0x10 <sup>-5</sup>	4.0x10 <sup>-5</sup>	2.0x10 <sup>-5</sup>	9.0x10 <sup>-6</sup>	6.0x10 <sup>-6</sup>	3.0x10 <sup>-6</sup>	2.0x10 <sup>-6</sup>
Insulation Resistance	100 Megohm Min. @ 50 VDC								
<b>ENVIRONMENTAL</b>									
Operating Temperature Range	-65°F to +350°F (-55°C to +175°C)								
Compensated Temperature Range	+80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Request								
Thermal Zero Shift	± 1% FS/100°F (Typ.)								
Thermal Sensitivity Shift	± 1% /100°F (Typ.)								
Linear Vibration	100g Peak, Sine up to 5000 Hz								
Humidity	100% Relative Humidity								
Mechanical Shock	20,000g, 100µ sec.								
<b>PHYSICAL</b>									
Electrical Connection	4 Conductor 30 AWG Shielded Cable 30" Long								
Weight	17 Grams (Max.) Excluding Cable								
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology								
Mounting Torque	80 Inch-Pounds (Max.) 6Nm								

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.

Continuous development and refinement of our products may result in specification changes without notice. All dimensions are final.