REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
D	REVISED PER ECO 28678	09/22	H. ECKLAR

PX500-TAB

Table 1

Pressure Range [PSIA or PSIS]															
From 0 to...	**25**	**50**	**75**	**100**	**150**	**200**	**300**	**500**	**1000**	**1500**	**2000**	**3000**	**4000**	**5000**	Consult Kavlico for custom configurations
Proof Pressure Factor	3x	3x	3x	3x	3x	2x	2x	2x	2x	2x	2x	2x	1.5x	1.5x	
Burst Pressure Factor	5x	5x	5x	5x	5x	3x	3x	3x	3x	3x	3x	3x	2.5x	2x	

Electrical										
Output Signal	Un-Amplified Bridge Output 10 mV/V	4-20 mA Two wire	0.5-4.5 VDC Single-ended output	0.5-9.5 VDC Single-ended output	0-5 VDC Single-ended output	0-10 VDC Single-ended output	0.5-4.5 VDC Differential output	0.5-9.5 VDC Differential output	0-5 VDC Differential output	0-10 VDC Differential output
Operating Supply Voltage	10 VDC Regulated	24-32 VDC	10-36 VDC	10-36 VDC	10-36 VDC	12-36 VDC	10-36 VDC	10-36 VDC	10-36 VDC	12-36 VDC
Response Time	T63 < 2 ms	T63 < 10 ms								
Insulation Resistance	100 MΩ @ 500 VDC									
Dielectric Strength	< 2mA, 500 VAC @ 60Hz for 60 sec	< 2mA, 250 VAC @ 60Hz for 60 sec								
Output Impedance (25°C)	4000 Ω Max @ 25°C	100 Ω Max @ 25°C								
Environmental										
Opeating Temperature Range	-55°C to 150°C (-65 to 300°F)	-55°C to 125°C (-65 to 257°F)								
Storage Temperature Range	-55°C to 150°C (-65 to 300°F)	-55°C to 150°C (-65 to 300°F)								
MTBF	> 150K flight hours	> 75K flight hours								
Vibration	$20G_{pk}$, Sinusoidal from 10 to 2000 Hz									
Shock	50G Half Sine Wave, 11 msec.									
Media Compatibility	Fuel, oil, air, hydraulic fluid, and other fluids compatible with 300-series and 17-4 PH stainless steel									
Accuracy (See Charts 1 and 2)										
Total Error Band (incl. Accuracy, Linearity, Repeatability, Hysteresis, and Temperature)	±1.5% of FSO from -55°C to +150°C	±1.0% of FSO from 0°C to +100°C Increasing to ±2% @ -55°C and +125°C								
Mechanical										
Pressure Ports	7/16-20 UNJF-3A per AS4395E04 7/16-20 UNJF-3A per AS4375E04									
Electrical Connection (See Table 2 for pin asignment)	D38999/25YA35CN (6-pin) MIL-DTL-26482 Series 1 (6-pin) MIL-DTL-26482 Series 1 (4-pin)									
Qualification Testing										
Certification	RTCA DO-160, MIL-STD-810, MIL-STD-461, RTCA DO-254									
Documentation	Acceptance Test Procedure (ATP) on 100% of units									

Part Number Selector

PX500-XXXX-A-A-1-A

Pressure Range
0 - 25.....25
0 - 50.....50
0 - 75.....75
0 - 100.....100
0 - 150.....150
0 - 200.....200
0 - 300.....300
0 - 500.....500
0 - 1000.....1000
0 - 1500.....1500
0 - 2000.....2000
0 - 3000.....3000
0 - 4000.....4000
0 - 5000.....5000

Pressure Reference
A = Absolute
S = Sealed Gage

Output*
A = Unamplified 10 mV/V
B = 4-20 mA
C = 0.5-4.5 VDC, Single-ended output
D = 0.5-4.5 VDC, Single-ended output
E = 0-5 VDC, Single-ended output
F = 0-10 VDC, Single-ended output
CD = 0.5-4.5 VDC, Differential output
DD = 0.5-9.5 VDC, Differential output
ED = 0-5 VDC, Differential output
FD = 0-10 VDC, Differential output

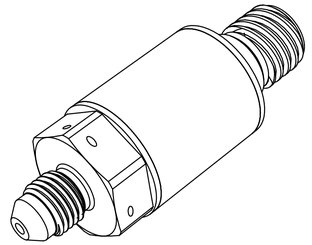
Pressure Connection
A = 7/16-20 UNJF per AS4395E04
B = 7/16-20 UNJF per AS4375E04

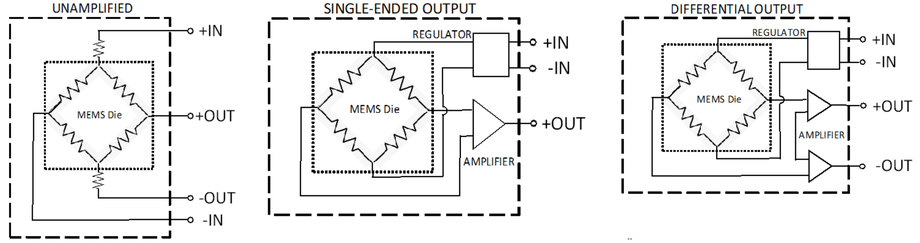
Electrical Connection
1 = D38999/25YA35CN (6-pin)
2 = MIL-DTL-26482 Series 1 (6-pin)
3 = MIL-DTL-26482 Series 1 (4-pin)

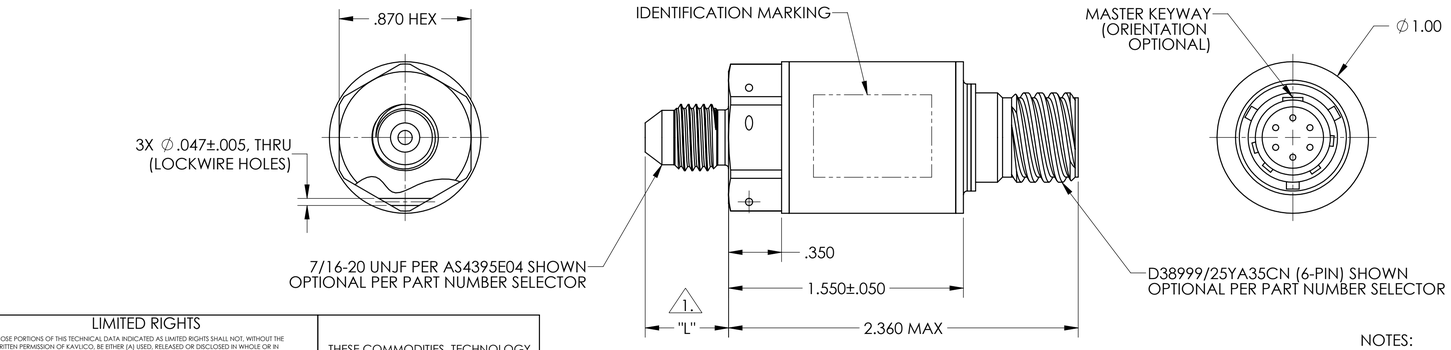
Table-2: Connector Pin Configuration**

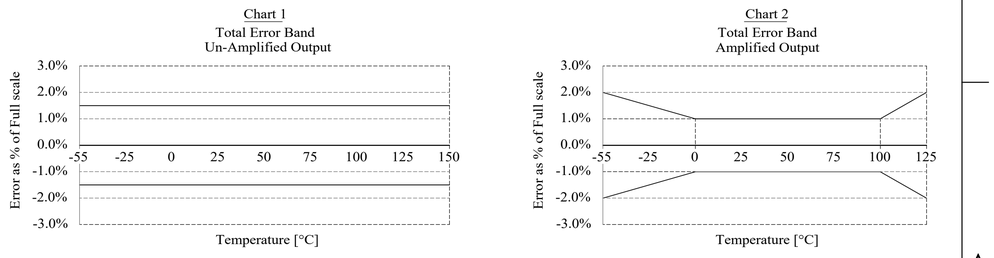
	MIL-DTL-26482 Series 1 (6-pin) (PTIH-10-6P) / MIL-DTL-26482 Series 1 (4-pin) (PTIH-8-4P)				MIL-DTL-38999 (6-pin)			
Output*	**Pin A**	**Pin B**	**Pin C**	**Pin D**	**Pin 1**	**Pin 2**	**Pin 3**	**Pin 4**
A = Unamplified 10 mV/V	+IN	-IN	+OUT	-OUT	+IN	-IN	+OUT	-OUT
B = 4-20 mA	+IN	-IN			+IN	-IN		
C = 0.5-4.5 VDC, Single-ended output	+IN	-IN	OUT		+IN	-IN	OUT	
D = 0.5-4.5 VDC, Single-ended output	+IN	-IN	OUT		+IN	-IN	OUT	
E = 0-5 VDC, Single-ended output	+IN	-IN	OUT		+IN	-IN	OUT	
F = 0-10 VDC, Single-ended output	+IN	-IN	OUT		+IN	-IN	OUT	
CD = 0.5-4.5 VDC, Differential output	+IN	-IN	+OUT	-OUT	+IN	-IN	+OUT	-OUT
DD = 0.5-9.5 VDC, Differential output	+IN	-IN	+OUT	-OUT	+IN	-IN	+OUT	-OUT
ED = 0-5 VDC, Differential output	+IN	-IN	+OUT	-OUT	+IN	-IN	+OUT	-OUT
FD = 0-10 VDC, Differential output	+IN	-IN	+OUT	-OUT	+IN	-IN	+OUT	-OUT

Notes:
* Consult Kavlico for other output configurations
** All other pins not connected









NOTES:

1. **L** = .550 ± .015 FOR AS4395E04
L = .453 ± .010 FOR AS4375E04

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AF183B: 07/13

DO NOT SCALE THIS DRAWING
ALL DIMENSIONS ARE IN INCH
DIMENSIONING & TOLERANCING PER ANSI Y14.5
TOL: .XX ± .03 FRACT ± 1/32
.XXX ± .010 ANG ± 1/2°
FINISH PER USAS B46.1
ALL MACHINED SURFACES
REMOVE BURRS AND BREAK SHARP EDGES: –
MACHINED FILLET RADII TO BE: –
DIAMETERS ON A COMMON ℄ TO BE ◎ WITHIN: –
PERPENDICULAR SURFACES TO BE ⊥ WITHIN: –
PART TO BE CLEAN AND OIL FREE
UNLESS OTHERWISE SPECIFIED

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TITLE: **PRESSURE TRANSDUCER**

SIZE	CODE IDENT NO.	DRAWING NO.	REV
D	22863	**PX500-TAB**	D

SCALE: 1:1 WT SHEET 1 OF 1