Model Number 2302-02A	REACTION TORQUE SENSOR								rision: E N #: 47636	
Performance		ENGLISH	<u>SI</u>		OPTIONAL VERSIONS					
Measurement Range(Full Scale Capacity)		20,000 lbf-in	2259 Nm	[1]					ne standard model	
Sensitivity(± 15 %)(output at rated capacity)		2 mV/V ≤ 0.1 % FS	2 mV/V	[1][5]	except where noted below. More than one option may be used.					
Non-Linearity	Non-Linearity		≤ 0.1 % FS	[5]						
Hysteresis		≤ 0.1 % FS	≤ 0.1 % FS	[5]						
Non-Repeatability		≤ 0.02 % FS	≤ 0.02 % FS	[5]						
Resonant Frequency		2.2 kHz	2.2 kHz							
Maximum Torque		30,000 lbf-in	3390 Nm							
Environmental										
Overload Limit(Axial Thrust)		20,000 lbf	88.96 kN	[3]	NOTES: [1] Nominal. [2] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.					
Overload Limit(Overhung Moment)		10,000 lbf-in	1130 Nm	[3]						
Overload Limit(Shear)		10,000 lbf	44.48 kN	[3]	[3] Singularly applied, i.e. no other extraneous loads. [4] Over compensated operating temperature range.					
Temperature Range(Operating)		-65 to +200 °F	-54 to +93 °C							
Temperature Range(Compensated)		+70 to +170 °F	+21 to +77 °C			[5] FS - Full Scale.				
Temperature Effect on Output(Maximum)		± 0.002 %Reading/°F	± 0.0036 %Reading/°C	[4]	[6] See Drawing 26440 for Complete Dimensions					
Temperature Effect on Zero Balance(Maximum)		± 0.002 %FS/°F	± 0.0036 %FS/°C	[4][5]						
Electrical					SUPPLIED ACCESSORIES: Model 181-012A PT06A-10-6S(SR) (1)					
Bridge Resistance		350 Ohm	350 Ohm	[1]						
Excitation Voltage(Recommended)		10 VDC	10 VDC	[2]	Widder 101-012A 1 100A-10-00(ON) (1)					
Insulation Resistance		5 GOhm	5 GOhm							
Zero Balance		≤1 %RO	≤ 1 %RO		Entered: LK	Engineer: PE	Sales: KH	Anarovod: ISD	Cnoo Number:	
Output Polarity		cw+	CW+		Entereu. LN	Engineer. PE	Sales. Nn	Approved: JSD	Spec Number:	
Physical					Date: 2/22/2018	Date: 2/22/2018	Date: 2/22/2018	Date: 2/22/2018	18726	
Size (Diameter x Length)		5.00 in x 3.50 in	127 mm x 88.9 mm	[6]	Date: Lizzizo : 5	Dato. Lilling.	Dato. Lillie	Dato. Lillie		
Weight		10 lb	4.536 kg							
Mounting		Flange (3/8in Bolts)	Flange (M10 Bolts)		PCB Load & Torque A Division of PCB Piezotronics					
Torsional Stiffness		7500 klbf-in/radian	847.4 kN-m/radian							
Sensing Element		Strain Gage	Strain Gage		24350 Indoplex Circle PCB LOAD & TORQUE Farmington Hills, MI 48335					
Housing Material(Sensor)		Plated Steel	Plated Steel							
Electrical Connector		PT02E-10-6P	PT02E-10-6P							
All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice.				A PCB PIEZOTRONICS DIV. Phone: 866-684-7107 E-Mail: LTSales@pcb.com						

E-Mail: LTSales@pcb.com

Web site: www.pcb.com/LoadAndTorque