Model Number 2301-02A		REACTION TORQUE SENSOR							vision: E N #: 47636	
Performance		ENGLISH	<u>SI</u>		OPTIONAL VERSIONS					
Measurement Range(Full Scale Capacity)		5000 lbf-in	565 Nm	[1]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.					
Sensitivity(± 15 %)(output at rated capacity)		2 mV/V	2 mV/V	[1][5]						
Non-Linearity		≤ 0.1 % FS	≤ 0.1 % FS	[5]						
Hysteresis		≤ 0.1 % FS	≤ 0.1 % FS	[5]						
Non-Repeatability		≤ 0.02 % FS	≤ 0.02 % FS	[5]						
Resonant Frequency		1.8 kHz	1.8 kHz							
Maximum Torque		7500 lbf-in	847 Nm							
Environmental										
Overload Limit(Axial Thrust)		5000 lbf	22.2 kN	[3]	NOTES: [1] Nominal. [2] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS. [3] Singularly applied, i.e. no other extraneous loads. [4] Over compensated operating temperature range. [5] FS - Full Scale. [6] See Drawing 26440 for Complete Dimensions					
Overload Limit(Overhung Moment)		2500 lbf-in	282 Nm	[3]						
Overload Limit(Shear)		2500 lbf	11.1 kN	[3]						
Temperature Range(Operating)		-65 to +200 °F	-54 to +93 °C							
Temperature Range(Compensated)		+70 to +170 °F	+21 to +77 °C							
Temperature Effect on Output(Maximum)		± 0.002 %Reading/°F	± 0.0036 %Reading/°C	[4]						
Temperature Effect on Zero Balance(Maximum)		± 0.002 %FS/°F	± 0.0036 %FS/°C	[4][5]						
Electrical										
Bridge Resistance		350 Ohm	350 Ohm	[1]	SUPPLIED ACCESSORIES: Model 181-012A PT06A-10-6S(SR) (1)					
Excitation Voltage(Recommended)		10 VDC	10 VDC	[2]						
Insulation Resistance		5 GOhm	5 GOhm							
Zero Balance		≤ 1 %RO	≤ 1 %RO							
Output Polarity		cw+	cw+		Entered: LK	Engineer: PE	Sales: KH	Approved: JSD	Spec Number:	
Physical					Date: 2/22/2018	Date: 2/22/2018	Date: 2/22/2018	Date: 2/22/2018	18722	
Size (Diameter x Length)		4.00 in x 3.00 in	101.6 mm x 76.2 mm	[6]	Date. 2/22/2010	Date. 2/22/2010	Date. 2/22/2010	Date. 2/22/2010		
Weight		5 lb	2.268 kg							
Mounting						d & Torque				
Torsional Stiffness		1290 klbf-in/radian	145.7 kN-m/radian		A Division of PCB Piezotronics 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107					
Sensing Element		Strain Gage	Strain Gage							
Housing Material		Anodized Aluminum	Anodized Aluminum							
Sensor Material		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.					E-Mail: LTSales@pcb.com Web site: www.pcb.com/LoadAndTorque					