Model Number 2303-01A	REACTION TORQUE SENSOR							R	evision: E CN #: 47636	
Performance		ENGLISH	SI		OPTIONAL VERSIONS					
Measurement Range(Full Scale Capacity)		50,000 lbf-in	5649 Nm	[1]	Optional versions have identical specifications and accessories as lis				the standard model	
Sensitivity(± 15 %)(output at rated capacity)		2 mV/V	2 mV/V	[1][5]	except where noted below. More than one option may be used.					
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		750 Hz	750 Hz							
Maximum Torque		75,000 lbf-in	8474 Nm							
Environmental										
Overload Limit(Axial Thrust)		50,000 lbf	222.4 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.					
Overload Limit(Overhung Moment)		25,000 lbf-in	2825 Nm	[3]						
Overload Limit(Shear)		10,000 lbf	44.48 kN	[3]						
Temperature Range(Operating)		-65 to +200 °F	-54 to +93 °C							
Temperature Range(Compensated)		+70 to +170 °F	+21 to +77 °C		<ul> <li>[5] FS - Full Scale.</li> <li>[6] See Drawing 26441 for Complete Dimensions</li> </ul>					
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						050000150				
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			- ·				
Physical					Entered: LK	Engineer: PE	Sales: KH	Approved: JSD	Spec Number:	
Size (Diameter x Length	ו)	8.00 in x 7.38 in	203.2 mm x 187.45 mm	[6]	Date <sup>:</sup> 2/22/2018	Date <sup>.</sup> 2/22/2018	Date: 2/22/2018	Date <sup>-</sup> 2/22/2018	18727	
Weight		50 lb	22.67 kg		Date: E/EE/Ee 10	Date: 2/22/2010	Date: 2/22/2010	Bato: E/EE/E010		
Mounting		Flange (5/8in Bolts)	Flange (M16 Bolts)							
Torsional Stiffness		10,200 klbf-in/radian	1152 kN-m/radian		PCB Load & Torque					
Sensing Element		Strain Gage	Strain Gage			on of PCB Piez	otronics			
Housing Material(Sensor)		Plated Steel	Plated Steel		24350 Indoplex Circle					
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. UNITED STATES Phone: 866-684-7107 E-Mail: LTSales@pcb.com Web site: www.pcb.com/LoadAndTorque					