

Model Number 2304-02A	REACTION TORQUE SENSOR				Revision: D ECN #: 47636										
Performance	ENGLISH	SI		OPTIONAL VERSIONS											
Measurement Range(Full Scale Capacity)	200,000 lbf-in	22,596 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	1.1 kHz	1.1 kHz		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 26442 for Complete Dimensions											
Maximum Torque	300,000 lbf-in	33,895 Nm													
Environmental															
Overload Limit(Axial Thrust)	200,000 lbf	889.6 kN	[3]												
Overload Limit(Overhung Moment)	100,000 lbf-in	11,298 Nm	[3]												
Overload Limit(Shear)	30,000 lbf	133.44 kN	[3]	SUPPLIED ACCESSORIES: Model 181-012A PT06A-10-6S(SR) (1)											
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				<table><tr><td>Entered: LK</td><td>Engineer: PE</td><td>Sales: KH</td><td>Approved: JSD</td><td>Spec Number:</td></tr><tr><td>Date: 2/22/2018</td><td>Date: 2/22/2018</td><td>Date: 2/22/2018</td><td>Date: 2/22/2018</td><td>22017</td></tr></table>		Entered: LK	Engineer: PE	Sales: KH	Approved: JSD	Spec Number:	Date: 2/22/2018	Date: 2/22/2018	Date: 2/22/2018	Date: 2/22/2018	22017
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Bridge Resistance	350 Ohm	350 Ohm	[1]												
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]												
Insulation Resistance	5 GOhm	5 GOhm													
Zero Balance	≤ 1 %RO	≤ 1 %RO		 PCB Load & Torque A Division of PCB Piezotronics 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 E-Mail: LTSales@pcb.com Web site: www.pcb.com/LoadAndTorque											
Physical															
Size (Diameter x Length)	9.75 in x 8.50 in	247.65 mm x 215.90 mm	[6]												
Weight	80 lb	36.29 kg													
Mounting	Flange (3/4in Bolts)	Flange (M20 Bolts)													
Torsional Stiffness	53,900 klbf-in/radian	6090 kN-m/radian													
Sensing Element	Strain Gage	Strain Gage													
Housing Material(Sensor)	Plated Steel	Plated Steel													
Electrical Connector	PT02E-10-6P	PT02E-10-6P													
<i>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.</i>															