

Model Number 2301-01A	REACTION TORQUE SENSOR			Revision: C ECN #: 44666
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range(Full Scale Capacity)	2000 lbf-in	226 Nm	[5]	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	[5]	
Non-Linearity	≤ 0.1 % FS	≤ 0.1 % FS	[4]	
Hysteresis	≤ 0.1 % FS	≤ 0.1 % FS	[4]	
Non-Repeatability	≤ 0.02 % FS	≤ 0.02 % FS	[4]	
Resonant Frequency	1000 Hz	1000 Hz		
Maximum Torque	3000 lbf-in	339 Nm		
Environmental				NOTES:
Overload Limit(Axial Thrust)	2000 lbf	8900 N	[2]	[1]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
Overload Limit(Overhung Moment)	1000 lbf-in	113 Nm	[2]	[2]Singularly applied, i.e. no other extraneous loads.
Overload Limit(Shear)	1000 lbf	4448 N	[2]	[3]Over compensated operating temperature range.
Temperature Range(Operating)	-65 to +200 °F	-54 to +93 °C		[4]FS - Full Scale.
Temperature Range(Compensated)	+70 to +170 °F	+21 to +77 °C		[5]Nominal.
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0036 %Reading/°C	[3]	[6]See Drawing 26439 for Complete Dimensions
Temperature Effect on Zero Balance(Maximum)	± 0.002 %FS/°F	± 0.0036 %FS/°C	[4]	
Electrical				SUPPLIED ACCESSORIES:
Bridge Resistance	350 Ohm	350 Ohm		Model 181-012A PT06A-10-6S(SR) (1)
Excitation Voltage(Recommended)	10 VDC	10 VDC	[1]	
Insulation Resistance	5 GOhm	5 GOhm		
Zero Balance	≤ 1 %RO	≤ 1 %RO		
Output Polarity	cw+	cw+		
Physical				Entered: LK
Size (Diameter x Length)	4.00 in x 3.00 in	101.6 mm x 76.2 mm	[6]	Engineer: JSD
Weight	5.00 lb	2268 g		Sales: RB
Mounting	Flange (5/16in Bolts)	Flange (M8 Bolts)		Approved: JM
Torsional Stiffness	370 klbf-in/radian	41.8 kN-m/radian		Spec Number:
Sensing Element	Strain Gage	Strain Gage		Date: 12/30/2015
Housing Material	Anodized Aluminum	Anodized Aluminum		Date: 12/30/2015
Electrical Connector	PT02E-10-6P	PT02E-10-6P		Date: 12/30/2015
Sensor Material	plated steel	plated steel		Date: 12/30/2015
				18721
				PCB Load & Torque 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 Fax: 716-684-0987 E-Mail: Itinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com



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.



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