

Model Number 2508-02A	<b>REACTION TORQUE SENSOR</b>			Revision: E ECN #: 44533
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>		<b>OPTIONAL VERSIONS</b>
Measurement Range(Full Scale Capacity)	100 lbf-in	11.3 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(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	620 Hz	380 Hz		
Maximum Torque	150 lbf-in	16.9 Nm		
<b>Environmental</b>				
Overload Limit(Axial Thrust)	280 lbf	1245 N	[3]	
Overload Limit(Overhung Moment)	100 lbf-in	11.3 Nm	[3]	
Overload Limit(Shear)	20 lbf	89 N	[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]	
<b>Electrical</b>				<b>NOTES:</b>
Bridge Resistance	700 Ohm	700 Ohm	[1]	[1]Nominal.
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]	[2]Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
Insulation Resistance	5 GOhm	5 GOhm		[3]Singularly applied, i.e. no other extraneous loads.
Zero Balance	≤ 1 %RO	≤ 1 %RO		[4]Over compensated operating temperature range.
Output Polarity	cw+	cw+		[5]FS - Full Scale.
<b>Physical</b>				[6]See Drawing 32786 for Complete Dimensions
Size (Diameter x Length)	2.00 in x 3.00 in	50.8 mm x 76.2 mm	[6]	<b>SUPPLIED ACCESSORIES:</b>
Weight	2 lb	908 g		Model 181-012A PT06A-10-6S(SR) (1)
Mounting	Flange (#10-24 Bolts)	Flange (No Metric Equivalent)		
Torsional Stiffness	6700 lbf-in/radian	757 N-m/radian		Entered: JM
Sensing Element	Strain Gage	Strain Gage		Engineer: PE
Electrical Connector	PT02E-10-6P	PT02E-10-6P		Sales: KWW
Housing Material(Sensor)	Anodized Aluminum	Anodized Aluminum		Approved: JSD
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				Date: 9/15/2015
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All specifications are at room temperature unless otherwise specified.  
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