

Model Number 2303-01A	REACTION TORQUE SENSOR			Revision: D ECN #: 38221
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Measurement Range(Full Scale Capacity)	50,000 lbf-in	5649 N-m	[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	750 Hz	750 Hz		
Maximum Torque	75,000 lbf-in	8474 N-m		
Environmental				
Overload Limit(Axial Thrust)	50,000 lbf	222.4 kN	[3]	
Overload Limit(Overhung Moment)	25,000 lbf-in	2825 N-m	[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		
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				NOTES:
Bridge Resistance	350 ohm	350 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.
Physical				[5] FS - Full Scale.
Size (Diameter x Length)	8.00 in x 7.38 in	203.2 mm x 187.45 mm	[6]	[6] See Drawing 26441 for Complete Dimensions
Weight	50 lb	22.67 kg		
Mounting	Flange (5/8in Bolts)	Flange (M16 Bolts)		
Torsional Stiffness	10,200 klbf-in/radian	1152 kN-m/radian		
Sensing Element	Strain Gage	Strain Gage		
Housing Material(Sensor)	Plated Steel	Plated Steel		
Electrical Connector	PT02E-10-6P	PT02E-10-6P		
				SUPPLIED ACCESSORIES:
				Model 181-012A PT06A-10-6S(SR) (1)
Entered: DMW		Engineer: PE		Sales: RR
Date: 1/24/2012		Date: 1/24/2012		Date: 1/24/2012
			Approved: JC	Spec Number:
			Date: 1/24/2012	18727
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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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