Model Number	REACTION TORQUE SENSOR	Revision: E
2508-03A		ECN #: 44533

Performance	ENGLISH	SI	
Measurement Range(Full Scale Capacity)	200 lbf-in	22.6 Nm	[1]
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	1040 Hz	1040 Hz	
Maximum Torque	300 lbf-in	33.9 Nm	
Environmental			
Overload Limit(Axial Thrust)	400 lbf	1780 N	[3]
Overload Limit(Overhung Moment)	200 lbf-in	22.6 Nm	[3]
Overload Limit(Shear)	26 lbf	116.7 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]
Electrical			
Bridge Resistance	700 Ohm	700 Ohm	[1]
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]
Insulation Resistance	5 GOhm	5 GOhm	
Zero Balance	≤ 1 %RO	≤ 1 %RO	
Output Polarity	cw+	cw+	
Physical			
Size (Diameter x Length)	2.00 in x 3.00 in	50.8 mm x 76.2 mm	[6]
Weight	2 lb	908 g	
Mounting	Flange (#10-24 Bolts)	Flange (No Metric Equivalent)	
Torsional Stiffness	18.8 klbf-in/radian	2124 N-m/radian	
Sensing Element	Strain Gage	Strain Gage	
Electrical Connector	PT02E-10-6P	PT02E-10-6P	
Housing Material(Sensor)	Anodized Aluminum	Anodized Aluminum	

CE

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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OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

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 32786 for Complete Dimensions

SUPPLIED ACCESSORIES:
Model 181-012A PT06A-10-6S(SR) (1)

Entered: JM	Engineer: PE	Sales: KWW	Approved: JSD	Spec Number:
Date: 9/15/2015	Date: 9/15/2015	Date: 9/15/2015	Date: 9/15/2015	18533

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