


	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Measurement Range(Full Scale Capacity)	1000 in-lb	115 Nm	[1]
Sensitivity(± 15 %)(output at rated capacity)	2.5 mV/V	2.5 mV/V	[1][3]
Non-Linearity	≤ 0.05 % FS	≤ 0.05 % FS	[3]
Hysteresis	≤ 0.05 % FS	≤ 0.05 % FS	[3]
Non-Repeatability	≤ 0.03 % FS	≤ 0.03 % FS	[3]
Environmental			
Overload Limit	1500 in-lb	170 Nm	
Temperature Range(Operating)	-65 to 285 °F	-54 to 141 °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][3]
Electrical			
Bridge Resistance	350 Ohm	350 Ohm	[1]
Excitation Frequency	3.28 kHz	3.28 kHz	
Excitation Voltage	2 to 10 VAC rms	2 to 10 VAC rms	[2]
Insulation Resistance	>5,000,000 kohm	>5,000,000 kohm	
Zero Balance	≤ 2 % FS	≤ 2 % FS	[3]
Bridge Current(at 5 VAC)	50 mA	50 mA	
Physical			
Size (Shaft Length x Housing Length x Housing Height)	9.10 in x 8.25 in x 6.00 in	231.14 mm x 209.55 mm x 152.40 mm	
Weight	46 lb	20.9 kg	
Mounting	Flange w/ Splined Shaft	Flange w/ Splined Shaft	[5]
Sensing Element	Strain Gage	Strain Gage	
Housing Material	Black Oxided Steel	Black Oxided Steel	
Shaft Material	Steel	Steel	
Electrical Connector	MS3102A-14S-5P	MS3102A-14S-5P	
Torsional Stiffness	94,000 in-lb/radian	10,600 N-m/radian	
Rotating Inertia	0.005 in-lb sec ²	0.0006 N-m sec ²	
Maximum Speed	15,000 RPM	15,000 RPM	
			
<p><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></p>			

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]Recommended 10 VAC RMS.
 [3]FS - Full Scale.
 [4]Over compensated operating temperature range.
 [5]Mounting per AND10262 and AND20002.
 [6]See PCB Declaration of Conformance PS062 for details.

SUPPLIED ACCESSORIES:

Model 180-019A 5-socket mating connector for Series 3100, 4100, 4200 torque sensors
 Model 8113-105A Relay activated precision shunt calibration module

Entered: AP	Engineer: PE	Sales: KWW	Approved: JSD	Spec Number:
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