


	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Measurement Range(Full Scale Capacity)	100 in-lb	11 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]
<b>Environmental</b>			
Overload Limit	300 in-lb	34 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]
<b>Electrical</b>			
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	
<b>Physical</b>			
Size (Shaft Length x Housing Length x Housing Height)	9.56 in x 8.25 in x 6.00 in	242.82 mm x 209.55 mm x 152.40 mm	
Weight	47 lb	21.3 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	13,500 in-lb/radian	1500 N-m/radian	
Rotating Inertia	0.0049 in-lb sec <sup>2</sup>	0.0005 N-m sec <sup>2</sup>	
Maximum Speed	15,000 RPM	15,000 RPM	
 <span style="font-size: small; vertical-align: middle;">[6]</span>			
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.			

**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

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