

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Measurement Range(Full Scale Capacity)	10,000 in-lb	1130 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	15,000 in-lb	1700 Nm	
Temperature Range(Operating)	-65 to 225 °F	-54 to 107 °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)	9.56 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 Oxidized Steel	Black Oxidized Steel	
Shaft Material	Steel	Steel	
Electrical Connector	MS3102A-14S-5P	MS3102A-14S-5P	
Torsional Stiffness	500,000 in-lb/radian	56,500 N-m/radian	
Rotating Inertia	0.0062 in-lb sec ²	0.0007 N-m sec ²	
Maximum Speed	15,000 RPM	15,000 RPM	

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:
Date: 2/13/2015	Date: 2/13/2015	Date: 2/13/2015	Date: 2/13/2015	18493



PCB Load & Torque, Inc.
24350 Indoplex Circle
Farmington Hills, MI 48335
UNITED STATES
Phone: 866-684-7107
Fax: 716-684-0987
E-Mail: linfo@pcbloadtorque.com
Web site:
http://www.pcbloadtorque.com



[6]
 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.