Model Number 4115K-08A	ROTARY	TRANSFORM	ER	TORQUE	SENSOR
Performance	ENGLISH 2000 in-lb	<u>SI</u> 225 Nm	[4]		ОРТ
Measurement Range(Full Scale Capacity) Sensitivity(± 15 %)(output at rated capacity)	2000 In-ID 2.5 mV/V	225 NM 2.5 mV/V	[1]	Optional vers	ions have identical sp
Non-Linearity	≤ 0.05 % FS	≥.5 mv/v ≤ 0.05 % FS	[1][3] [3]	mod	del except where note
Hysteresis	≤ 0.05 % FS	≤ 0.05 % FS	[3]		
Non-Repeatability	≤ 0.03 % FS	≤ 0.03 % FS	[3]		
Environmental			[-]		
Overload Limit	6000 in-lb	675 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]	NOTES:	
Temperature Effect on Zero Balance(Maximum)	± 0.002 %FS/°F	± 0.0036 %FS/°C	[4][3]	[1]Nominal.	1.40.V40 PM0
Electrical				[2]Recommende	
Bridge Resistance	350 Ohm	350 Ohm	[1]	[3]FS - Full Scale	
Excitation Frequency	3.28 kHz	3.28 kHz		[4]Over compensated operating temp [5]Mounting per AND10262 and AND	
Excitation Voltage	2 to 10 VAC rms	2 to 10 VAC rms	[2]		laration of Conforman
Insulation Resistance	>5,000,000 kohm	>5,000,000 kohm		[[0]000 : 02 200	
Zero Balance	≤ 2 % FS	≤ 2 % FS	[3]		
Bridge Current(at 5 VAC)	50 mA	50 mA		SUPPLIED AC	
Physical					5-socket mating conr
Size (Shaft Length x Housing Length x Housing Heig	5 ,	242.82 mm x 209.55 mm x		Model 8113-105	A Relay activated pred
***	6.00 in	152.40 mm			
Weight	47 lb	21.3 kg		-	
Mounting	Flange w/ Splined Shaft	Flange w/ Splined Shaft	[5]	Entered: JM	Engineer: JSD



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:

Strain Gage

Black Oxided Steel

Steel

MS3102A-14S-5P

23.000 N-m/radian

0.0006 N-m sec2

15.000 RPM

[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: JM	Engineer: JSD	Sales: KWW	Approved: JM	Spec Number:
Date: 7/23/2015	Date: 7/23/2015	Date: 7/23/2015	Date: 7/23/2015	18488

PCB LOAD & TORQUE Phone: 866-684-7107

PCB Load & Torque 24350 Indoplex Circle Farmington Hills, MI 48335 **UNITED STATES**

A PCB PIEZOTRONICS DIV. Fax: 716-684-0987

E-Mail: Itinfo@pcbloadtorque.com

Revision: G

ECN #: 44335

Web site:

http://www.pcbloadtorque.com



Sensing Element

Housing Material

Electrical Connector

Torsional Stiffness

Rotating Inertia

Maximum Speed

Shaft Material

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.

Strain Gage

Black Oxided Steel

MS3102A-14S-5P

204.000 in-lb/radian

0.0052 in-lb sec2

15.000 RPM