

Model Number 4115K-06A	ROTARY TRANSFORMER TORQUE SENSOR				Revision: F ECN #: 44335
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Measurement Range(Full Scale Capacity)	1000 in-lb	115 Nm	[1]		Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
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	3000 in-lb	340 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.
Electrical					[2]Recommended 10 VAC RMS.
Bridge Resistance	350 Ohm	350 Ohm	[1]		[3]FS - Full Scale.
Excitation Frequency	3.28 kHz	3.28 kHz			[4]Over compensated operating temperature range.
Excitation Voltage	2 to 10 VAC rms	2 to 10 VAC rms	[2]		[5]Mounting per AND10262 and AND20002.
Insulation Resistance	>5,000,000 kohm	>5,000,000 kohm			[6]See PCB Declaration of Conformance PS062 for details.
Zero Balance	≤ 2 % FS	≤ 2 % FS	[3]		
Bridge Current(at 5 VAC)	50 mA	50 mA			SUPPLIED ACCESSORIES:
Physical					Model 180-019A 5-socket mating connector for Series 3100, 4100, 4200 torque sensors
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			Model 8113-105A Relay activated precision shunt calibration module
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	204,000 in-lb/radian	23,000 N-m/radian			
Rotating Inertia	0.0052 in-lb sec ²	0.0006 N-m sec ²			
Maximum Speed	15,000 RPM	15,000 RPM			
 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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