


Model Number 039225-50101	ROTARY TORQUE, W/ENCODER AND AUTO ID				Revision: NR ECN #: 38721
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Measurement Range(Full Scale Capacity)	100 lbf-in	11.3 Nm			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(output at rated capacity)	2.0 mV/V	2.0 mV/V	[7]		
Non-Linearity	≤ 0.25 % FS	≤ 0.25 % FS	[2]		
Hysteresis	≤ 0.25 % FS	≤ 0.25 % FS	[2]		
Non-Repeatability	≤ 0.05 % FS	≤ 0.05 % FS	[2]		
Interchangeability	≤ 0.30 % FS	≤ 0.30 % FS	[8][2]		
Environmental					NOTES:
Overload Limit	150 lbf-in	16.9 Nm			[1] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
Temperature Range(Operating)	0 to +200 °F	-18 to +93 °C			[2] FS - Full Scale.
Temperature Range(Compensated)	+70 to +150 °F	+21 to +66 °C			[3] Magnetic Encoder Specifications.
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0018 %Reading/°C	[6]		[4] A-B Track 90° Phase Difference, Flat Over Operating S speed
Temperature Effect on Zero Balance(Maximum)	± 0.002 %FS/°F	± 0.0018 %FS/°C	[6]		[5] Matched with 43.575 kOhm Precision Resistor.
Electrical					[6] Over compensated temperature range.
Bridge Resistance	350 Ohm	350 Ohm			[7] Matched to ±0.25% F.S.
Excitation Voltage	10 VDC	10 VDC	[1]		[8] Matched for mV/V and shunt calibration.
Insulation Resistance	≥ 5 GOhm	≥ 5 GOhm			[9] See Outline Drawing 45187 for Complete Dimensions
Zero Balance	≤ 2 % FS	≤ 2 % FS	[2]		[10] Per ANSI B107.4 Specifications
Counts Per Revolution	1440	1440	[3]		[11] See PCB Declaration of Conformance PS119 for details.
Resolution w/ Quadrature	1/4 °	1/4 °	[3]		
Output Voltage	High 5V to Low 0.5V	High 5V to Low 0.5V	[3]		
Power Required(maximum)	5 VDC @ 120mA	5 VDC @ 120mA	[3]		SUPPLIED ACCESSORIES:
Magnetic Encoder(Poles)	360	360	[3]		Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm
Magnetic Encoder(Output)	See Note	See Note	[4][3]		
Shunt Calibration	≤ 0.25 % FS	≤ 0.25 % FS	[5][2]		OPTIONAL ACCESSORIES:
Auto ID	TTL Proprietary	TTL Proprietary			Model 080920-01000 MODEL 920 PORTABLE DIGITAL INSTRUMENT
Physical					Model 080962-01000 MODEL 962 DATA RECORDER
Size (Shaft Length x Housing Length x Housing Height)	3.23 in x 2.30 in x 2.00 in	82.0 mm x 58.4 mm x 50.8 mm	[9]		Model 097000-34445 INTERCONNECT CABLE
Weight	.75 lb	340 gm			Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)
Mounting	1/4 inch Sq Drive	6.35 mm Sq Drive	[10]		
Sensing Element	Strain Gage	Strain Gage			Entered: DMW
Housing Material	Aluminum	Aluminum			Engineer: JM
Shaft Material	Steel	Steel			Sales: DM
Electrical Connector	PT02H-12-10P	PT02H-12-10P			Approved: PE
Maximum Speed	5000 RPM	5000 RPM			Spec Number:
					Date: 3/14/2012
					Date: 3/14/2012
					Date: 3/14/2012
					Date: 3/14/2012
					51937
 [11] <p>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.</p>					PCB Load & Torque, Inc. 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 Fax: 716-684-0987 E-Mail: ltinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com