

Model Number 039237-50022/B		ROTARY TORQUE, W/ENCODER AND AUTO ID			Revision: NR ECN #: 47364	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Measurement Range(Full Scale Capacity)		200 lbf-in	22.6 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						
Overload Limit		300 lbf-in	33.9 Nm		NOTES: [1] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS. [2] FS - Full Scale. [3] Magnetic Encoder Specifications. [4] A-B Track 90° Phase Difference, Flat Over Operating Speed [5] Matched with 43.575 kOhm Precision Resistor. [6] Over compensated temperature range. [7] Matched to ±0.25% F.S. [8] Matched for mV/V and shunt calibration. [9] See Outline Drawing LT38037 for Complete Dimensions [10] Per ANSI B107.4 Specifications [11] See PCB Declaration of Conformance PS119 for details.	
Temperature Range(Operating)		0 to +200 °F	-18 to +93 °C			
Temperature Range(Compensated)		+70 to +150 °F	+21 to +66 °C			
Temperature Effect on Output(Maximum)		± 0.002 %Reading/°F	± 0.0018 %Reading/°C	[6]		
Temperature Effect on Zero Balance(Maximum)		± 0.002 %FS/°F	± 0.0018 %FS/°C	[6]		
Electrical						
Bridge Resistance		350 Ohm	350 Ohm		SUPPLIED ACCESSORIES: Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm OPTIONAL ACCESSORIES: Model 080920-01000 Model 920 Portable Digital Peak Meter for torque, torque-angle or load measurement; Click-Wrench calc feature, w/battery charger, instruction manual & shoulder strap Model 080962-01000 MODEL 962 DATA RECORDER Model 097000-34445 INTERCONNECT CABLE Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)	
Excitation Voltage		10 VDC	10 VDC	[1]		
Insulation Resistance		≥ 5 GOhm	≥ 5 GOhm			
Zero Balance		≤ 2 % FS	≤ 2 % FS	[2]		
Counts Per Revolution		1472	1472	[3]		
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]		
Magnetic Encoder(Poles)		360	360	[3]		
Magnetic Encoder(Ouput)		See Note	See Note	[4][3]		
Shunt Calibration		≤ 0.25 % FS	≤ 0.25 % FS	[5][2]		
Auto ID		TTL Proprietary	TTL Proprietary			
Physical						
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]		
Weight		.85 lb	386 gm			
Mounting		3/8 inch Sq Drive	9.52 mm Sq Drive	[10]		
Sensing Element		Strain Gage	Strain Gage			
Housing Material		Aluminum	Aluminum			
Shaft Material		Steel	Steel			
Electrical Connector		PT02H-12-10P	PT02H-12-10P			
Maximum Speed		2500 RPM	2500 RPM			
 [11] 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.  PCB LOAD & TORQUE A PCB PIEZOTRONICS DIV. PCB Load & Torque A Division of PCB Piezotronics 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 E-Mail: LTSales@pcb.com Web site: www.pcb.com/LoadAndTorque						