

Model Number 039275-51501/B		ROTARY TORQUE, W/ENCODER AND AUTO ID			Revision: NR ECN #: 47364	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Measurement Range(Full Scale Capacity)		369 lbf-ft	500 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		553 lbf-ft	750 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 LT38038 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		2176	2176	[3]		
Resolution w/ Quadrature		1/6 °	1/6 °	[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)		540	540	[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)		4.13 in x 2.69 in x 2.94 in	104.9 mm x 68.3 mm x 74.7 mm	[9]		
Weight		2.2 lb	1000 gm			
Mounting		3/4 inch Sq Drive	19.05 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		2000 RPM	2000 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						