

Model Number 039037-50051		ROTARY TORQUE, W/AUTO ID			Revision: NR ECN #: 38721	
Performance		ENGLISH	SI		OPTIONAL VERSIONS	
Measurement Range(Full Scale Capacity)		50 lbf-ft	68 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	[5]		
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	[6][2]		
Environmental						
Overload Limit		75 lbf-ft	101 Nm		NOTES: [1] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS. [2] FS - Full Scale. [3] Matched with 43.575 kOhm Precision Resistor. [4] Over compensated temperature range. [5] Matched to ±0.25% F.S. [6] Matched for mV/V and shunt calibration. [7] See Outline Drawing LT38037 for Complete Dimensions [8] Per ANSI B107.4 Specifications [9] 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	[4]		
Temperature Effect on Zero Balance(Maximum)		± 0.002 %FS/°F	± 0.0018 %FS/°C	[4]		
Electrical						
Bridge Resistance		350 Ohm	350 Ohm			
Excitation Voltage		10 VDC	10 VDC	[1]		
Insulation Resistance		≥ 5 GOhm	≥ 5 GOhm			
Zero Balance		≤ 2 % FS	≤ 2 % FS	[2]		
Shunt Calibration		≤ 0.25 % FS	≤ 0.25 % FS	[3][2]		
Auto ID		TTL Proprietary	TTL Proprietary			
Physical					SUPPLIED ACCESSORIES: Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm	
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	[7]	OPTIONAL ACCESSORIES: Model 080920-01000 MODEL 920 PORTABLE DIGITAL INSTRUMENT Model 080962-01000 MODEL 962 DATA RECORDER Model 097000-34445 INTERCONNECT CABLE Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)	
Weight		.85 lb	386 gm			
Mounting		3/8 inch Sq Drive	9.52 mm Sq Drive	[8]		
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			
						
[9]						
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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