

Model Number 039075-51501		ROTARY TORQUE, W/AUTO ID			Revision: NR ECN #: 38721		
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	[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		553 lbf-ft	750 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 LT38038 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)		4.13 in x 2.69 in x 2.94 in	104.9 mm x 68.3 mm x 74.7 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		2.2 lb	1000 gm				
Mounting		3/4 inch Sq Drive	19.05 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		2000 RPM	2000 RPM				
							
<i>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.</i>							
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Entered: DMW		Engineer: JM		Sales: DM		Approved: PE	Spec Number:
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