

Model Number 039075-50301		ROTARY TORQUE, W/AUTO ID			Revision: NR ECN #: 38721	
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Measurement Range(Full Scale Capacity)		300 lbf-ft	406 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			
Non-Linearity		≤ 0.25 % FS	≤ 0.25 % FS			
Hysteresis		≤ 0.25 % FS	≤ 0.25 % FS			
Non-Repeatability		≤ 0.05 % FS	≤ 0.05 % FS			
Interchangeability		≤ 0.30 % FS	≤ 0.30 % FS	[6][2]		
Environmental				NOTES:		
Overload Limit		450 lbf-ft	610 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] Matched with 43.575 kOhm Precision Resistor.		
Temperature Effect on Output(Maximum)		± 0.002 %Reading/°F	± 0.0018 %Reading/°C	[4] Over compensated temperature range.		
Temperature Effect on Zero Balance(Maximum)		± 0.002 %FS/°F	± 0.0018 %FS/°C	[5] Matched to ±0.25% F.S.		
Electrical				[6] Matched for mV/V and shunt calibration.		
Bridge Resistance		350 Ohm	350 Ohm	[7] See Outline Drawing LT38038 for Complete Dimensions		
Excitation Voltage		10 VDC	10 VDC	[8] Per ANSI B107.4 Specifications		
Insulation Resistance		≥ 5 GOhm	≥ 5 GOhm	[9] See PCB Declaration of Conformance PS119 for details.		
Zero Balance		≤ 2 % FS	≤ 2 % FS			
Shunt Calibration		≤ 0.25 % FS	≤ 0.25 % FS	[3][2]		
Auto ID		TTL Proprietary	TTL Proprietary			
Physical				SUPPLIED ACCESSORIES:		
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	Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm		
Weight		2.2 lb	1000 gm	OPTIONAL ACCESSORIES:		
Mounting		3/4 inch Sq Drive	19.05 mm Sq Drive	Model 080920-01000 MODEL 920 PORTABLE DIGITAL INSTRUMENT		
Sensing Element		Strain Gage	Strain Gage	Model 080962-01000 MODEL 962 DATA RECORDER		
Housing Material		Aluminum	Aluminum	Model 097000-34445 INTERCONNECT CABLE		
Shaft Material		Steel	Steel	Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)		
Electrical Connector		PT02H-12-10P	PT02H-12-10P			
Maximum Speed		2000 RPM	2000 RPM			
						
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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