

Model Number <b>039037-50022</b>	<b>ROTARY TORQUE, W/AUTO ID</b>	Revision: NR ECN #: 38721
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	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Measurement Range(Full Scale Capacity)	200 lbf-in	22.6 Nm	
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]
<b>Environmental</b>			
Overload Limit	300 lbf-in	33.9 Nm	
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]
<b>Electrical</b>			
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	
<b>Physical</b>			
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]
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	

**OPTIONAL VERSIONS**

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

**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.


**SUPPLIED ACCESSORIES:**  
 Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm

**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)

Entered: DMW	Engineer: JM	Sales: DM	Approved: PE	Spec Number:
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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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