

Model Number 039301-01103		ROTARY TORQUE, W/ENCODER AND AUTO ID		Revision: NR ECN #: 38721	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range(Full Scale Capacity)	7376 lbf-ft	10 kNm		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	8851 lbf-ft	12 kNm			
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			
Excitation Voltage	10 VDC	10 VDC	[1]		
Insulation Resistance	≥ 5 GOhm	≥ 5 GOhm			
Zero Balance	≤ 2 % FS	≤ 2 % FS	[2]		
Counts Per Revolution	2880	2880	[3]		
Resolution w/ Quadrature	1/8 °	1/8 °	[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)	720	720	[3]		
Magnetic Encoder(Output)	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)	5.50 in x 2.63 in x 4.88 in	139.7 mm x 66.8 mm x 123.9 mm	[9]		
Weight	7.5 lb	3402 gm			
Mounting	1.50 inch Sq Drive	38.1 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	750 RPM	750 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.					
		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 S peed [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 LT36492 for Complete Dimensions [10] Per ANSI B107.4 Specifications [11] 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
Date: 3/14/2012		Date: 3/14/2012		Date: 3/14/2012	Date: 3/14/2012
				51948	
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