

Model Number 039201-01302/B		ROTARY TORQUE, W/ENCODER AND AUTO ID			Revision: NR ECN #: 47364
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range(Full Scale Capacity)		2213 lbf-ft	3000 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	[8][2]	
Environmental				NOTES:	
Overload Limit		2802 lbf-ft	3800 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] Magnetic Encoder Specifications.	
Temperature Effect on Output(Maximum)		± 0.002 %Reading/°F	± 0.0018 %Reading/°C	[4] A-B Track 90° Phase Difference, Flat Over Operating Speed	
Temperature Effect on Zero Balance(Maximum)		± 0.002 %FS/°F	± 0.0018 %FS/°C	[5] Matched with 43.575 kOhm Precision Resistor.	
Electrical				[6] Over compensated temperature range.	
Bridge Resistance		350 Ohm	350 Ohm	[7] Matched to ±0.25% F.S.	
Excitation Voltage		10 VDC	10 VDC	[8] Matched for mV/V and shunt calibration.	
Insulation Resistance		≥ 5 GOhm	≥ 5 GOhm	[9] See Outline Drawing 49635 for Complete Dimensions	
Zero Balance		≤ 2 % FS	≤ 2 % FS	[10] Per ANSI B107.4 Specifications	
Counts Per Revolution		2880	2880	[11] See PCB Declaration of Conformance PS119 for details.	
Resolution w/ Quadrature		1/8 °	1/8 °		
Output Voltage		High 5V to Low 0.5V	High 5V to Low 0.5V		
Power Required(maximum)		5 VDC @ 120mA	5 VDC @ 120mA		
Magnetic Encoder(Poles)		720	720		
Magnetic Encoder(Output)		See Note	See Note		
Shunt Calibration		≤ 0.25 % FS	≤ 0.25 % FS		
Auto ID		TTL Proprietary	TTL Proprietary		
Physical				SUPPLIED ACCESSORIES:	
Size (Shaft Length x Housing Length x Housing Height)		4.00 in x 2.00 in x 3.63 in	101.6 mm x 50.8 mm x 92.2 mm	Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm	
Weight		3.2 lb	1452 gm	OPTIONAL ACCESSORIES:	
Mounting		1 inch Sq Drive	25.4 mm Sq Drive	Model 080920-01000 Model 920 Portable Digital Peak Meter for torque, torque-angle or load measurement; Click-Wrench calc feature, w/battery charger, instruction manual & shoulder strap	
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		1000 RPM	1000 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.		Entered: LK		Engineer: PE	Sales: DM
		Date: 10/31/2017		Date: 10/31/2017	Date: 10/31/2017
				Approved: JSD	Spec Number:
				68210	
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