

Model Number 039230-50021/B		ROTARY TORQUE W/ENCODER AND AUTO ID			Revision: NR ECN #: 47364											
Performance		ENGLISH	SI		OPTIONAL VERSIONS											
Measurement Range(Full Scale Capacity)		20 lbf-in	2.3 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	[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		30 lbf-in	3.4 Nm		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 Speed [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 45188 for Complete Dimensions [10] Per ANSI B107.4 Specifications [11] 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	[6]												
Temperature Effect on Zero Balance(Maximum)		± 0.002 %FS/°F	± 0.0018 %FS/°C	[6]												
Electrical																
Bridge Resistance		350 Ohm	350 Ohm		SUPPLIED ACCESSORIES: Model 7122R-04352A PRECISION CAL RESISTOR 43.575 kOhm											
Excitation Voltage		10 VDC	10 VDC	[1]												
Insulation Resistance		≥ 5 GOhm	≥ 5 GOhm													
Zero Balance		≤ 2 % FS	≤ 2 % FS	[2]												
Counts Per Revolution		1472	1472	[3]												
Resolution w/ Quadrature		1/4 °	1/4 °	[3]	OPTIONAL ACCESSORIES: 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 Model 080962-01000 MODEL 962 DATA RECORDER Model 097000-34445 INTERCONNECT CABLE Model 4242R-000630 MATING CONNECTOR PT06A-12-10S(SR)											
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)		360	360	[3]												
Magnetic Encoder(Ouput)		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)		4.25 in x 2.30 in x 2.00 in	108.0 mm x 58.4 mm x 50.8 mm	[9]	<table><tr><td>Entered: LK</td><td>Engineer: PE</td><td>Sales: DM</td><td>Approved: JSD</td><td>Spec Number:</td></tr><tr><td>Date: 10/31/2017</td><td>Date: 10/31/2017</td><td>Date: 10/31/2017</td><td>Date: 10/31/2017</td><td>68197</td></tr></table>		Entered: LK	Engineer: PE	Sales: DM	Approved: JSD	Spec Number:	Date: 10/31/2017	Date: 10/31/2017	Date: 10/31/2017	Date: 10/31/2017	68197
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Weight		.75 lb	340 gm													
Mounting		1/4 inch Hex Drive	6.35 mm Hex Drive	[10]												
Sensing Element		Strain Gage	Strain Gage													
Housing Material		Aluminum	Aluminum		 PCB Load & Torque A Division of PCB Piezotronics 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 E-Mail: LTSales@pcb.com Web site: www.pcb.com/LoadAndTorque											
Shaft Material		Steel	Steel													
Electrical Connector		PT02H-12-10P	PT02H-12-10P													
Maximum Speed		5000 RPM	5000 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.																