

Model Number 039230-50002/B		ROTARY TORQUE, W/ENCODER AND AUTO ID		Revision: NR ECN #: 47364		
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Measurement Range(Full Scale Capacity)		32 ozf-in	0.23 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)		1.1 mV/V	1.1 mV/V			
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	[7][2]		
Environmental						
Overload Limit		96 ozf-in	0.68 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	[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		1472	1472	[3]		
Resolution w/ Quadrature		1/4 °	1/4 °	[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)		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	[8]		
Weight		.75 lb	340 gm			
Mounting		1/4 inch Hex Drive	6.35 mm Hex Drive	[9]		
Sensing Element		Strain Gage	Strain Gage			
Housing Material		Aluminum	Aluminum			
Shaft Material		Steel	Steel			
Electrical Connector		PT02H-12-10P	PT02H-12-10P			
Maximum Speed		5000 RPM	5000 RPM			
 [10] 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 Approved: JSD Spec Number: Date: 10/31/2017 Date: 10/31/2017 Date: 10/31/2017 Date: 10/31/2017 68196		
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