Model Number	ROTARY TORQUE, SHAFT-SHAFT, HIGH SPEED, LOW CAPACITY	Revision: A
3122-01A		ECN #: 37309

Performance	**ENGLISH**	**SI**	
Measurement Range(Full Scale Capacity)	8.85 in-lb	1 Nm	
Sensitivity(output at rated capacity)	1.5 mV/V	1.5 mV/V	[4]
Non-Linearity	≤ 0.1 % FS	≤ 0.1 % FS	[2]
Hysteresis	≤ 0.1 % FS	≤ 0.1 % FS	[2]
Non-Repeatability	≤ 0.05 % FS	≤ 0.05 % FS	[2]
Environmental			
Overload Limit	44 in-lb	5 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	[3]
Temperature Effect on Zero Balance(Maximum)	± 0.002 %FS/°F	± 0.0018 %FS/°C	[3]
Electrical			
Bridge Resistance	350 Ohm	350 Ohm	
Excitation Voltage	20 VDC or VAC rms	20 VDC or VAC rms	[1]
Insulation Resistance	>5 GOhm	>5 GOhm	
Zero Balance	≤ 2 % FS	≤ 2 % FS	[2]
Bridge Current(at 5 VAC)	50 mA	50 mA	
Physical			
Size (Shaft Length x Housing Length x Housing Height)	6.50 in x 3.44 in x 3.50 in	165.1 mm x 87.4 mm x 88.9 mm	[5]
Weight	2 lb	0.9 kg	
Mounting	Keyed Shaft	Keyed Shaft	
Sensing Element	Strain Gage	Strain Gage	
Housing Material	Aluminum	Aluminum	
Shaft Material	Stainless Steel	Stainless Steel	
Electrical Connector	PT02H-8-4P	PT02H-8-4P	
Torsional Stiffness	400 in-lb/radian	400 in-lb/radian	
Rotating Inertia	0.42 in-lb/sec2	0.42 in-lb/sec2	
Maximum Speed	10,000 RPM	10,000 RPM	

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.

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] Recommended 10 VAC RMS.
[2] FS - Full Scale.
[3] Over compensated operating temperature range.
[4] Nominal.
[5] See 45871 for dimensional drawing.

Entered: AP	Engineer: PE	Sales: KWW	Approved: DA	Spec Number:
Date: 7/17/2013	Date: 7/17/2013	Date: 7/17/2013	Date: 7/17/2013	**45864**

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