Model Number ROTAR	Y TORQUE, S	HAFT-SHAFT, HI	GH S	SPEED, LOW CAPACITANCE
Performance	ENGLISH	SI		Optional Versions (Optional versions have id
Measurement Range (Full Scale Capacity)	8.85 in-lb	1 Nm		for standard model except where noted below
Sensitivity (output at rated capacity)	1.5 mV/V	1.5 mV/V	[4]	•
Non-Linearity	≤0.1 % FS	≤0.1 % FS	[2]	Notes
Hysteresis	≤0.1 % FS	≤0.1 % FS	[2]	[1] Recommended 10 VAC RMS.
Non-Repeatability	≤0.05 % FS	≤0.05 % FS	[2]	[2] FS - Full Scale.
Environmental				[3] Over compensated operating tempe
Overload Limit	44 in-lb	5 Nm		[4] Nominal.
Temperature Range (Operating)	0 to 200 °F	-18 to 93 °C		[5] See 45871 for dimensional drawing.
Temperature Range (Compensated)	70 to 150 °F	21 to 66 °C		
Temperature Effect on Output (Maximum)	±0.002	±0.0018 %Reading/°C	[3]	
	%Reading/°F	_		
Temperature Effect on Zero Balance	±0.002 %FS/°F	±0.0018 %FS/°C	[3]	
(Maximum)				
Electrical				
Bridge Resistance	350 Ohm	350 Ohm		
Excitation Voltage	20 VDC or VAC	20 VDC or VAC rms	[1]	
	rms			
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	6.50 in x 3.44 in x	165.1 mm x 87.4 mm	[5]	
Housing Height)	3.50 in	x 88.9 mm		
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	10000 RPM	10000 RPM		

Revision NR

ECN #:

## Notes

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

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.

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En	tered: BLS	Engineer: PE	Sales: JC	Approved: BLS	Spec Number:
Da	te:	Date:	Date:	Date:	45864
04	/01/2010	04/01/2010	04/01/2010	04/01/2010	



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Model Number 3122-02A ROTAR	RY TORQUE, S	HAFT-SHAFT, HI	GH S	SPEED, LOW CAPACITANCE
Performance	ENGLISH	SI		Optional Versions (Optional versions have id
Measurement Range (Full Scale Capacity)	17.7 in-lb	2 Nm		for standard model except where noted below
Sensitivity (output at rated capacity)	1.5 mV/V	1.5 mV/V	[4]	
Non-Linearity	≤0.1 % FS	≤0.1 % FS	[2]	Notes
Hysteresis	≤0.1 % FS	≤0.1 % FS	[2]	<ol><li>[1] Recommended 10 VAC RMS.</li></ol>
Non-Repeatability	≤0.05 % FS	≤0.05 % FS	[2]	[2] FS - Full Scale.
Environmental				[3] Over compensated operating tempe
Overload Limit	71 in-lb	8 Nm		[4] Nominal.
Temperature Range (Operating)	0 to 200 °F	-18 to 93 °C		[5] See 45871 for dimensional drawing.
Temperature Range (Compensated)	70 to 150 °F	21 to 66 °C		
Temperature Effect on Output (Maximum)	±0.002	±0.0018 %Reading/°C	[3]	
	%Reading/°F			
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	20 VDC or VAC rms	[1]	
Excitation voltage	rms	20 100 01 140 1113	ניו	
Insulation Resistance	>5 GOhm	>5 GOhm		
Zero Balance	≤2 % FS	≤2 % FS	[2]	
Bridge Current (at 5 VAC)	50 mA	50 mA	[-]	
Physical	00 1117 (	00 11.0 1		
Size (Shaft Length x Housing Length x	6.50 in x 3.44 in x	165.1 mm x 87.4 mm	[5]	
Housing Height)	3.50 in	x 88.9 mm		
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	1.1 kin-lb/radian	1.1 kin-lb/radian		
Rotating Inertia	0.42 in-lb/sec2	0.42 in-lb/sec2		
Maximum Speed	10000 RPM	10000 RPM		

Revision NR

ECN #:

## Notes

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

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.

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Entered: BLS	Engineer: PE	Sales: JC	Approved: BLS	Spec Number:
Date:	Date:	Date:	Date:	45865
04/01/2010	04/01/2010	04/01/2010	04/01/2010	



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Model Number 3122-03A ROTA	RY TORQUE, S	HAFT-SHAFT, H	IGH S	SPEED, LOW CAPACITANCE
Performance	ENGLISH	SI		Optional Versions (Optional versions have id
Measurement Range (Full Scale Capacity	r) 50 in-lb	5.7 Nm		for standard model except where noted below
Sensitivity (output at rated capacity)	1.5 mV/V	1.5 mV/V	[4]	
Non-Linearity	≤0.1 % FS	≤0.1 % FS	[2]	Notes
Hysteresis	≤0.1 % FS	≤0.1 % FS	[2]	<ol><li>[1] Recommended 10 VAC RMS.</li></ol>
Non-Repeatability	≤0.05 % FS	≤0.05 % FS	[2]	[2] FS - Full Scale.
Environmental				[3] Over compensated operating tempe
Overload Limit	133 in-lb	15 Nm		[4] Nominal.
Temperature Range (Operating)	0 to 200 °F	-18 to 93 °C		[5] See 45871 for dimensional drawing.
Temperature Range (Compensated)	70 to 150 °F	21 to 66 °C		
Temperature Effect on Output (Maximum)		±0.0018 %Reading/°C	[3]	
	%Reading/°F			
Temperature Effect on Zero Balance	±0.002 %FS/°F	±0.0018 %FS/°C	[3]	
(Maximum)				
Electrical	250 Oh	250 Ob		
Bridge Resistance	350 Ohm 20 VDC or VAC	350 Ohm 20 VDC or VAC rms	[4]	
Excitation Voltage		20 VDC of VAC IIIIS	[1]	
Insulation Resistance	rms >5 GOhm	>5 GOhm		
Zero Balance	≤2 % FS	≤2 % FS	[2]	
Bridge Current (at 5 VAC)	≥2 % F3 50 mA	≥2 % F3 50 mA	[2]	
Physical	30 IIIA	50 MA		
Size (Shaft Length x Housing Length x	6.50 in x 3.44 in x	165.1 mm x 87.4 mm	[5]	
Housing Height)	3.50 in	x 88.9 mm	[0]	
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	4.4 kin-lb/radian	4.4 kin-lb/radian		
Rotating Inertia	0.42 in-lb/sec2	0.42 in-lb/sec2		
Maximum Speed	10000 RPM	10000 RPM		

Revision NR

ECN #:

## Notes

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

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.

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Entered: BLS	Engineer: PE	Sales: JC	Approved: BLS	Spec Number:
Date:	Date:	Date:	Date:	45866
04/01/2010	04/01/2010	04/01/2010	04/01/2010	



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Model Number 3122-04A	ROTAR	Y TORQUE, S	HAFT-SHAFT, H	IGH S	SPEED, LOW CAPACITANCE
Performance		ENGLISH	SI		Optional Versions (Optional versions have id
Measurement Rai	nge (Full Scale Capacity)	88.5 in-lb	10 Nm		for standard model except where noted below
Sensitivity (output	ut at rated capacity)	1.5 mV/V	1.5 mV/V	[4]	
Non-Linearity		≤0.1 % FS	≤0.1 % FS	[2]	Notes
Hysteresis		≤0.1 % FS	≤0.1 % FS	[2]	<ol><li>[1] Recommended 10 VAC RMS.</li></ol>
Non-Repeatability	/	≤0.05 % FS	≤0.05 % FS	[2]	[2] FS - Full Scale.
Environmental					[3] Over compensated operating tempe
Overload Limit		177 in-lb	20 Nm		[4] Nominal.
Temperature Ran	ge (Operating)	0 to 200 °F	-18 to 93 °C		[5] See 45871 for dimensional drawing.
Temperature Ran	ige (Compensated)	70 to 150 °F	21 to 66 °C		
Temperature Effe	ct on Output (Maximum)	±0.002	±0.0018 %Reading/°C	[3]	
		%Reading/°F			
	ct on Zero Balance	±0.002 %FS/°F	±0.0018 %FS/°C	[3]	
(Maximum)					
Electrical					
Bridge Resistance		350 Ohm	350 Ohm		
Excitation Voltage	9	20 VDC or VAC	20 VDC or VAC rms	[1]	
		rms			
Insulation Resista	ince	>5 GOhm	>5 GOhm		
Zero Balance		≤2 % FS	≤2 % FS	[2]	
Bridge Current (a	at 5 VAC)	50 mA	50 mA		
Physical					
	h x Housing Length x	6.50 in x 3.44 in x	165.1 mm x 87.4 mm	[5]	
Housing Height)		3.50 in	x 88.9 mm		
Weight		2 lb	0.9 Kg		
Mounting		Keyed Shaft	Keyed Shaft		
Sensing Element		Strain Gage Aluminum	Strain Gage Aluminum		
Housing Material Shaft Material		Stainless Steel	Stainless Steel		
Electrical Connec	tor	PT02H-8-4P	PT02H-8-4P		
Torsional Stiffnes		12.4 kin-lb/radian	12.4 kin-lb/radian		
Rotating Inertia	3	0.42 in-lb/sec2	0.42 in-lb/sec2		
Maximum Speed		10000 RPM	10000 RPM		
малинан ороса		10000 131 101	10000 111 111		

Revision NR

ECN #:

## Notes

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

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.

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Entered: BLS	Engineer: PE	Sales: JC	Approved: BLS	Spec Number:
Date:	Date:	Date:	Date:	45867
04/01/2010	04/01/2010	04/01/2010	04/01/2010	



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