Model Number 2305-01 A		R	REACTION TORG	UE S	ENSOR
Performance		ENGLISH	SI		Optional Ve
	inge (Full Scale Capacity)	300000 lbf-in	33895 Nm	[1]	for standard
	%) (output at rated	2 mV/V	2 mV/V	[1][5]	
capacity)					Notes
Non-Linearity		≤0.1 % FS	≤0.1 % FS	[5]	[1] No
Hysteresis		≤0.1 % FS	≤0.1 % FS	[5]	[2] Ca
Non-Repeatability	•	≤0.02 % FS	≤0.02 % FS	[5]	[3] Sin
Resonant Freque		560 Hz	560 Hz		[4] Ov
Maximum Torque)	450000 lbf-in	50842 Nm		[5] FS
Environmental					[6] Se
Overload Limit (300000 lbf	1334.4 kN	[3]	
	Overhung Moment)	150000 lbf-in	16947 Nm	[3]	
Overload Limit (30000 lbf	133.44 kN	[3]	Supplied A
Temperature Ran		-65 to 200 °F	-54 to 93 °C		181-012A F
	nge (Compensated)	+70 to 170 °F	+21 to 77 °C		
Temperature Effe	ect on Output (Maximum)	±0.002	±0.0036 %Reading/°C	[4]	
		%Reading/°F			
	ect on Zero Balance	±0.002 %FS/°F	±0.0036 %FS/°C	[5][4]	
(Maximum)					
Electrical		050 01	050 Oh	F41	
Bridge Resistance		350 Ohm	350 Ohm	[1]	
	e (Recommended)	10 VDC	10 VDC	[2]	
Insulation Resista	ance	5 GOhm	5 GOhm		
Zero Balance		≤1 %RO	≤1 %RO		
Physical	L a castle)	44.00 % 40.5 %	055 05 000 70	[0]	
Size (Diameter x	Length)	14.00 in x 10.5 in	355.65 mm x 266.70	[6]	
AA7 = 1 = de (005 11	mm		
Weight		225 lb	102.06 Kg		
Mounting		Flange (1 in Bolts)	Flange (M24 Bolts)		
Torsional Stiffnes	SS	75800 klbf- in/radian	8564 kN-m/radian		
Sensing Element		Strain Gage	Strain Gage		
Housing Material		Plated Steel	Plated Steel		
Electrical Connec	ctor	PT02E-10-6P	PT02E-10-6P		

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Revision C

ECN #: 38221

Notes

- [1] Nominal.
- [2] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
- [3] Singularly applied, i.e. no other extraneous loads.
- [4] Over compensated operating temperature range.
- [5] FS Full Scale.
- [6] See Drawing 26443 for Complete Dimensions

Supplied Accessories

181-012A PT06A-10-6S(SR) (1)

Œ

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.

ICP® is a registered trademark of PCB group, Inc.

Entered: DMW	Engineer: PE	Sales: RR	Approved: JC	Spec Number:
Date:	Date:	Date:	Date:	25799
01/24/2012	01/24/2012	01/24/2012	01/24/2012	



Company: PCB Load & Torque, Inc. Address: 24350 Indoplex Circle Farmington Hills, MI 48335

UNITED STATES

Phone: 866-684-7107 Fax: 716-684-0987

E-mail: ltinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com

Model Number 2305-02A	F	REACTION TORG	UE S	SENSOR
Performance	ENGLISH	SI		Optional Ve
Measurement Range (Full Scale Capacity)	500000 lbf-in	56492 Nm	[1]	for standard
Sensitivity (±15 %) (output at rated	2 mV/V	2 mV/V	[1][5]	
capacity)				Notes
Non-Linearity	≤0.1 % FS	≤0.1 % FS	[5]	[1] No
Hysteresis	≤0.1 % FS	≤0.1 % FS	[5]	[2] Ca
Non-Repeatability	≤0.02 % FS	≤0.02 % FS	[5]	[3] Sin
Resonant Frequency	780 Hz	780 Hz		[4] Ov
Maximum Torque	750000 lbf-in	84738 Nm		[5] FS
Environmental				[6] Se
Overload Limit (Axial Thrust)	500000 lbf	2224 kN	[3]	
Overload Limit (Overhung Moment)	250000 lbf-in	28246 Nm	[3]	
Overload Limit (Shear)	50000 lbf	224.4 kN	[3]	Supplied A
Temperature Range (Operating)	-65 to 200 °F	-54 to 93 °C		181-012A F
Temperature Range (Compensated)	+70 to 170 °F	+21 to 77 °C		
Temperature Effect on Output (Maximum)	±0.002	±0.0036 %Reading/°C	[4]	
	%Reading/°F			
Temperature Effect on Zero Balance	±0.002 %FS/°F	±0.0036 %FS/°C	[5][4]	
(Maximum)				
Electrical				
Bridge Resistance	350 Ohm	350 Ohm	[1]	
Excitation Voltage (Recommended)	10 VDC	10 VDC	[2]	
Insulation Resistance	5 GOhm	5 GOhm		
Zero Balance	≤1 %RO	≤1 %RO		
Physical				
Size (Diameter x Length)	14.00 in x 10.50 in	355.65 mm x 266.70	[6]	
NAC 1 1 4	005.11	mm		
Weight	225 lb	102.06 Kg		
Mounting	Flange (1 in Bolts)	Flange (M24 Bolts)		
Torsional Stiffness	150000 klbf- in/radian	16947 kN-m/radian		
Sensing Element	Strain Gage	Strain Gage		
Housing Material (Sensor)	Plated Steel	Plated Steel		
Electrical Connector	PT02E-10-6P	PT02E-10-6P		

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Revision C

ECN #: 38221

Notes

- [1] Nominal.
- [2] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
- [3] Singularly applied, i.e. no other extraneous loads.
- [4] Over compensated operating temperature range.
- [5] FS Full Scale.
- [6] See Drawing 26443 for Complete Dimensions

Supplied Accessories

181-012A PT06A-10-6S(SR) (1)

Œ

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.

ICP® is a registered trademark of PCB group, Inc.

Entered: DMW	Engineer: PE	Sales: RR	Approved: JC	Spec Number:
Date:	Date:	Date:	Date:	25800
01/24/2012	01/24/2012	01/24/2012	01/24/2012	



Company: PCB Load & Torque, Inc. Address: 24350 Indoplex Circle Farmington Hills, MI 48335

UNITED STATES

Phone: 866-684-7107 Fax: 716-684-0987

E-mail: ltinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com