Model Number 2303-01A		F	REACTION TORG	UE S	SENSOR
Performance		ENGLISH	SI		Optional Ve
	nge (Full Scale Capacity)	50000 lbf-in	5649 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	•	750 Hz	750 Hz		[4] Ov
Maximum Torque	•	75000 lbf-in	8474 Nm		[5] FS
Environmental					[6] Se
Overload Limit (50000 lbf	222.4 kN	[3]	
	Overhung Moment)	25000 lbf-in	2825 Nm	[3]	
Overload Limit (,	10000 lbf	44.48 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	050.01		
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 anath)	8.00 in x 7.38 in	203.2 mm x 187.45	[6]	
Size (Diameter x	Lengin)	6.00 III X 7.36 III		[6]	
Mojaht		50 lb	mm 22.67 Kg		
Weight Mounting		Flange (5/8in	Flange (M16 Bolts)		
Mounting		Bolts)	Flatige (WT6 Bolts)		
Torsional Stiffnes		10200 klbf-	1152 kN-m/radian		
TOTSIONAL SUITIES	5	in/radian	1132 KIN-III/Iadiaii		
Sensing Element		Strain Gage	Strain Gage		
Housing Material		Plated Steel	Plated Steel		
Electrical Connec		PT02E-10-6P	PT02E-10-6P		
Liectrical Collinet	AOI	1 102L-10-0P	F 102L-10-0F		

ECN #: 38221 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 D

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 26441 for Complete Dimensions

Supplied Accessories

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

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All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without

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Entered: DMW	Engineer: PE	Sales: RR	Approved: JC	Spec Number:
Date:	Date:	Date:	Date:	18727
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 2303-02A		F	REACTION TORG	UE S	SENSOR
Performance		ENGLISH	SI		Optional Ve
Measurement Ra	nge (Full Scale Capacity)	100000 lbf-in	11298 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 Freque	ency	1.25 kHz	1250 Hz		[4] Ov
Maximum Torque)	150000 lbf-in	16948 Nm		[5] FS
Environmental					[6] Se
Overload Limit (100000 lbf	444.8 kN	[3]	
	Overhung Moment)	50000 lbf-in	5650 Nm	[3]	
Overload Limit (,	20000 lbf	88.96 kN	[3]	Supplied A
Temperature Rar		-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	050.01		
Bridge Resistanc		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	La cardo)	0.00 ' 7.00 '-	000 0 407 45	[0]	
Size (Diameter x	Length)	8.00 in x 7.38 in	203.2 mm x 187.45	[6]	
\\\a:\=\=\		50 lb	mm		
Weight		50 lb	22.67 Kg		
Mounting		Flange (5/8in	Flange (M16 Bolts)		
Torsional Stiffnes		Bolts) 25700 klbf-	2903 kN-m/radian		
Torsional Stiffnes	S		2903 kin-m/radian		
Consing Florest		in/radian	Strain Cogo		
Sensing Element		Strain Gage Plated Steel	Strain Gage Plated Steel		
Housing Material Electrical Connec		PT02E-10-6P	Proze-10-6P		
Electrical Connec	AUI	F102E-10-0P	P102E-10-0P		

ECN #: 38221 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 D

Notes

- [1] Nominal.
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- [4] Over compensated operating temperature range.
- [5] FS Full Scale.
- [6] See Drawing 26441 for Complete Dimensions

Supplied Accessories

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

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All specifications are at room temperature unless otherwise specified.

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Entered: DMW	Engineer: PE	Sales: RR	Approved: JC	Spec Number:
Date:	Date:	Date:	Date:	18728
01/24/2012	01/24/2012	01/24/2012	01/24/2012	



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UNITED STATES Phone: 866-684-7107

Fax: 716-684-0987 E-mail: ltinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com