Model Number		F	REACTION TORG	UF S	SENSOR
2302-01A				COL	
Performance		ENGLISH	SI		Optional Ve
	nge (Full Scale Capacity)	10000 lbf-in	1130 Nm	[1]	for standard
	%) (output at rated	2 mV/V	2 mV/V	[1][5]	
capacity)			=0	1	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		1.4 kHz	1400 Hz		[4] Ov
Maximum Torque	<del>)</del>	15000 lbf-in	1695 Nm		[5] FS
Environmental					[6] Se
Overload Limit (		10000 lbf	44.48 kN	[3]	
	Overhung Moment)	5000 lbf-in	565 Nm	[3]	
Overload Limit (		5000 lbf	22.24 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			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		5.00: 0.50:	407 00 0		
Size (Diameter x	Length)	5.00 in x 3.50 in	127 mm x 88.9 mm	[6]	
Weight		10 lb	4536 g		
Mounting		Flange (3/8in Bolts)	Flange (M10 Bolts)		
Torsional Stiffnes	SS	2980 klbf-in/radian	336.7 kN-m/radian		
Sensing Element		Strain Gage	Strain Gage		
Housing Material	(Sensor)	Plated Steel	Plated Steel		
Electrical Connec	ctor	PT02E-10-6P	PT02E-10-6P		

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 C

### 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 26440 for Complete Dimensions

# **Supplied Accessories**

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

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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l	Entered: DMW	Engineer: PE	Sales: RR	Approved: JC	Spec Number:
ĺ	Date:	Date:	Date:	Date:	18725
Į	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			REACTION TORG	UE S	ENSOR
2302-02A					
Performance	(Fall Casts Casts (1)	ENGLISH	SI	F41	Optional Ve
	nge (Full Scale Capacity)	20000 lbf-in	2259 Nm	[1]	for standard
, ,	%) (output at rated	2 mV/V	2 mV/V	[1][5]	Netoo
capacity)		<0.4.0/ EC	<0.4.0/ FC	[6]	Notes
Non-Linearity		≤0.1 % FS	≤0.1 % FS	[5]	[1] No
Hysteresis		≤0.1 % FS	≤0.1 % FS	[5]	[2] Cal
Non-Repeatability	•	≤0.02 % FS	≤0.02 % FS	[5]	[3] Sin
Resonant Freque		2.2 kHz	2200 Hz		[4] Ov
_ Maximum Torque	•	30000 lbf-in	3390 Nm		[5] FS
Environmental					[6] Se
Overload Limit (		20000 lbf	88.96 kN	[3]	
	Overhung Moment)	10000 lbf-in	1130 Nm	[3]	Committee A
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		
l'emperature Effe	ect on Output (Maximum)	±0.002	±0.0036 %Reading/°C	[4]	
		%Reading/°F			
	ct on Zero Balance	±0.002 %FS/°F	±0.0036 %FS/°C	[5][4]	
(Maximum)					
Electrical	_	050 01	050 01	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 carda)	5 00 '- · · 0 50 '-	107	[0]	
Size (Diameter x	Length)	5.00 in x 3.50 in	127 mm x 88.9 mm	[6]	
Weight		10 lb	4536 g		
Mounting		Flange (3/8in Bolts)	Flange (M10 Bolts)		
Torsional Stiffnes	s	7500 klbf-in/radian	847.4 kN-m/radian		
Sensing Element		Strain Gage	Strain Gage		
Housing Material	(Sensor)	Plated Steel	Plated Steel		
Electrical Connec		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 26440 for Complete Dimensions

## **Supplied Accessories**

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

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:	18726
01/24/2012	01/24/2012	01/24/2012	01/24/2012	



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