Model Number 2305-01A	REACTION TORQUE SENSOR								
Performance	ENGLISH	SI			OF	TION			
Measurement Range(Full Scale Capacity)	300,000 lbf-in	33,895 Nm	[1]	Optional versions have identical specification					
Sensitivity(± 15 %)(output at rated capacity)	2 mV/V	2 mV/V	[1][5]	except where noted below		below. N			
Non-Linearity	≤ 0.1 % FS	≤ 0.1 % FS	[5]						
Hysteresis	≤ 0.1 % FS	≤ 0.1 % FS	[5]						
Non-Repeatability	≤ 0.02 % FS	≤ 0.02 % FS	[5]						
Resonant Frequency	560 Hz	560 Hz							
Maximum Torque	450,000 lbf-in	50,842 Nm							
Environmental									
Overload Limit(Axial Thrust)	300,000 lbf	1334.4 kN	[3]	NOTES: [1] Nominal. [2] Calibrated at 10 VDC, usable 5 to 20 VI [3] Singularly applied, i.e. no other extraned [4] Over compensated operating temperatu [5] FS - Full Scale. [6] See Drawing 26443 for Complete Dimen					
Overload Limit(Overhung Moment)	150,000 lbf-in	16,947 Nm	[3]			20 1/0			
Overload Limit(Shear)	30,000 lbf	133.44 kN	[3]						
Temperature Range(Operating)	-65 to 200 °F	-54 to 93 °C							
Temperature Range(Compensated)	+70 to 170 °F	+21 to 77 °C							
Temperature Effect on Output(Maximum)	± 0.002 %Reading/°F	± 0.0036 %Reading/°C	[4]			Dimen			
Temperature Effect on Zero Balance(Maximum)	± 0.002 %FS/°F	± 0.0036 %FS/°C	[4][5]						
Electrical				OLIDBLIED AG	OFOODIEO				
Bridge Resistance	350 Ohm	350 Ohm	[1]	SUPPLIED ACCESSORIES: Model 181-012A PT06A-10-6S(SR) (1)		(1)			
Excitation Voltage(Recommended)	10 VDC	10 VDC	[2]			(1)			
Insulation Resistance	5 GOhm	5 GOhm							
Zero Balance	≤ 1 %RO	≤ 1 %RO		Estand III	E DE	0.1			
Physical				Entered: LK	Engineer: PE	Sales			
Size (Diameter x Length)	14.00 in x 10.5 in	355.65 mm x 266.70 mm	[6]	Date: 2/22/2018	Date: 2/22/2018	Date:			
Weight	225 lb	102.06 kg		Date. 2/22/2010	Date. 2/22/2010	Date.			
Mounting	Flange (1 in Bolts)	Flange (M24 Bolts)							
Torsional Stiffness	75,800 klbf-in/radian	8564 kN-m/radian							
Sensing Element	Strain Gage	Strain Gage							
Housing Material(Sensor)	Plated Steel	Plated Steel							
Electrical Connector	PT02E-10-6P	PT02E-10-6P		<b>PCB LOAD &amp; TORQUE</b>					
All specifications are at room temperature unless otl	herwise specified.								
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In the interest of constant product improvement, we reserve the right to change specifications without notice.

## NAL VERSIONS

ions and accessories as listed for the standard model v. More than one option may be used.

- /DC or VAC RMS.
- eous loads.
- ture range.
- ensions

Entered: LK	Engineer: PE	Sales: KH	Approved: JSD	Spec Number:
Date: 2/22/2018	Date: 2/22/2018	Date: 2/22/2018	Date: 2/22/2018	25799



PCB Load & Torque A Division of PCB Piezotronics 24350 Indoplex Circle LOAD & TORQUE Farmington Hills, MI 48335 Phone: 866-684-7107

E-Mail: LTSales@pcb.com

Web site: www.pcb.com/LoadAndTorque

Revision: D ECN #: 47636