

TSQ High Capacity Square Drive Torque Transducer

- 300K to 3,000K lb-in capacities (34K Nm to 340K Nm)
- Male square on each end
- High stiffness
- 2X safe overload
- Fully calibrated, CW & CCW



PERFORMANCE PARAMETERS

Model	Capacity		Torsional Stiffness	Weight	Max Thrust	Max Bending
	lb-in	kNm	lb-in/rad	lb	lbf	lb-in
TSQ1	300K	34	52.2×10^6	57	400K	400K
TSQ1	600K	68	56.6×10^6	57	400K	400K
TSQ1	1,200K	137	57.2×10^6	57	400K	400K
TSQ2	750K	85	17.1×10^7	166	1,500K	1,500K
TSQ2	1,500K	170	20.7×10^7	166	1,500K	1,500K
TSQ2	3,000K	339	2.2×10^8	166	1,500K	1,500K

SPECIFICATIONS

ACCURACY – (MAX ERROR)	
Nonlinearity –% FS	±0.25 (TSQ1-1200K ±0.50)
Hysteresis –% FS	±0.25 (TSQ1-1200K ±0.50)
Nonrepeatability - % RO	±0.05
TEMPERATURE	
Effect on Zero– % RO/°F	±0.0002
Effect on Output–%/°F	±0.0002
Compensated Range–°F	+75 to +175
Operating Range–°F	-65 to +225
ELECTRICAL	
Rated Output–mV/V (nominal)	3
Input Resistance - Ohms	350
Output Resistance - Ohms	350
Excitation, nominal –VDC	10
Excitation, MAX –VDC	15
MECHANICAL	
Safe Overload–% RO	200
Connector	CF 3102E-14S-6P
Calibration	CW & CCW to rated capacity

DIMENSIONS

Model	A	B	C	D	E	F	G	H	J
TSQ1	10.75	3.5	3.75	3.25	1.875	6	3.875	4.97	4
TSQ2	16	5.5	5	5	2.5	8.5	5.125	7.5	5.5

