

MULTI-AXIS LOAD CELLS

AXIAL FORCE AND TORQUE (SWT) SERIES TRANSDUCERS

FEATURES

- Measure both Force and Torque
- High Accuracy Both Bridges
- Low Crosstalk
- Low Creep



SPECIFICATIONS

MODEL SWT	Capacity (lb. / in.-lb)	
	300/150, 500/250, 1K/500 2K/1K, 5K/2.5K	
PARAMETERS	Axial Force Bridge	Torque Bridge
Accuracy		
Nonlinearity, % R.O.	+/- .04	+/- .07
Hysteresis, % R.O.	+/- .04	+/- .05
Nonrepeatability, % R.O.	+/- .02	+/- .05
Creep, % in 20 minutes	+/- .025	+/- .025
Zero Balance, % R.O.	+/- 2.0	+/- 2.0
Temperature		
Range, Compensated, °F	+15 to +115	+15 to +115
Range, Operating, °F	-65 to +200	-65 to +200
Effect on Sensitivity, % Rdg/100°F	+/- .08	+/- .08
Effect on Zero, % R.O./100°F	+/- .15	+/- .15
Electrical		
Rated Output, mV/V, Nominal	1.5	1.8
Excitation Voltage, VDC	10	10
Input Resistance, Ohms	700	700
Output Resistance, Ohms	700	700
Insulation Resistance, Megohm	5000	5000
Mechanical		
Safe Overload, % R.O.	200	200
Flexure Material	Steel	Steel

DIMENSIONS

MODEL SWT	Capacity (lb. / in.-lb)
Review Drawing (in inches)	300/150, 500/250, 1K/500, 2K/1K, 5K/2.5K
1. Total Height	3.63
2. Max. Clearance Radius	2.53
3. Total Diameter	4.12
4. Mounting Hole Thread	3/8 - 24, .66 Dp.
5. Locating Hole Diameter	.25 on 3.00 B.C.
6. Base Thread	5/8 - 18, .95 Dp.
7. Connector	MS3112E10-6P

