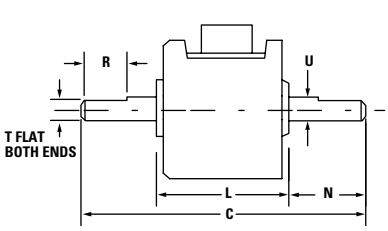
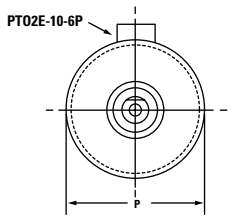
MODEL 2120

Shaft reaction torque sensor

FEATURES:

- No maintenance of slip rings, bearings or brushes
- Minimal friction error
- Low end sensitivity
- Reaction measurements eliminate speed limitations





2120	IN.	CM.
C	4.50	11.43
L	1.88	4.76
N	1.31	3.33
R	0.75	1.91
U	0.37	0.95
P	2.19	5.56
T	0.34	0.86

PERFORMANCE SPECS: 2120

SPECIFICATIONS

Actual performance average: *Nonlinearity:* *Hysteresis:*	 **0.021%** **0.024%**
Nonlinearity: *of rated output*	**±0.1%**
Hysteresis: *of rated output*	**±0.1%**
Output at rated capacity: *millivolts per volt, nominal*	**2**
Repeatability: *of rated output*	**±0.05%**
Zero balance: *of rated output*	**±1.0%**
Bridge resistance: *ohms nominal*	**350**
Temperature range, compensated: *°F*	**+70 to +170**
Temperature range, compensated: *°C*	**+21 to +77**
Temperature range, usable: *°F*	**-65 to +200**
Temperature range, usable: *°C*	**-54 to +93**
Temperature effect on output: *of reading per °F*	**±0.002%**
Temperature effect on output: *of reading per °C*	**±0.0036%**
Temperature effect on zero: *of rated output per °F*	**±0.002%**
Temperature effect on zero: *of rated output per °C*	**±0.0036%**
Excitation voltage, maximum: *volts DC or AC rms*	**20**
Insulation resistance, bridge/case: *megohms at 50 VDC*	**>5,000**
Number of bridges	**1**

SENSOR CHARACTERISTICS: 2120

MODEL NUMBER	CAPACITY oz. in. (N • m)	OVERLOAD oz. in. (N • m)	TORSIONAL STIFFNESS lb. in./rad. (N • m/rad.)	MAX. OVERHUNG MOMENT WxS lb. in. (N • m)	MAX. SHEAR W lbs. (N)	MAX. THRUST P lbs. (N)
2120-50	50 (0.35)	150 (1.06)	300 (34)	3.10 (0.35)	2.60 (11.57)	12 (53.40)
2120-100	100 (0.70)	300 (2.16)	890 (101)	6.25 (0.71)	3.60 (16.01)	35 (155)
2120-200	200 (1.50)	600 (4.32)	2,310 (261)	12.50 (1.41)	5.00 (22.24)	60 (265)
2120-500	500 (3.50)	1,000 (7.00)	2,560 (289)	31.25 (3.53)	10 (44.50)	120 (535)
2120-1K	1,000 (7.00)	1,500 (10.60)	5,130 (580)	62.50 (7.06)	16 (71.20)	140 (625)