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Model 1920 Series
NEMA Frame Torque Sensors

IN-LINE ROTATING TORQUE SENSORS

These sensors were designed to specifically mount to a NEMA precision motor frame to provide a convenient method for adding torque measurement and feedback control to precision motion control applications. These applications typically involve automated assembly and test equipment for high volume manufacturing.

Simple, robust design utilizes magnetoelastic principles to measure rotary torque with high accuracy and low cost. This innovative product will allow direct torque measurements where it has been cost prohibitive in the past.

FEATURES

- Non-Contact Signal Transfer
- Low Cost
- Simple Design
- Very Robust
- NEMA 17, 23, 34 & 42 Compatible
- High Level Output Signal

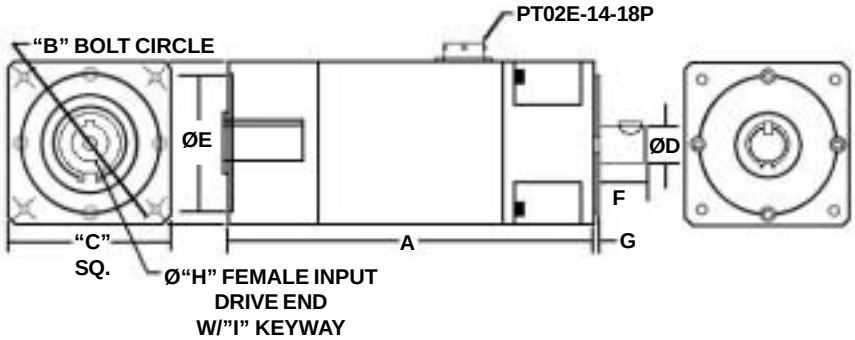
OPTIONS

- Optical Encoder for Angle and Speed Outputs (1 Degree Resolution)

SPECIFICATIONS

Power Requirement	+ and - 12 VDC
Output - Nominal @ Rated Capacity	±15 VDC
Overall Accuracy	1% of Full Scale
Operating Temp. Range	-10°C to +65°C
Maximum Speed	3,600 RPM
Overload Rating	150%

** Includes separate electronic interface module and cable*



NEMA FRAME SIZE	MODEL NO.	CAPACITY LB.INCH	DIMENSIONAL CHARACTERISTICS (INCHES)								
			A	B	C SQ.	D	E	F	G	H	I
17	1922	50	5.10	1.725	1.65	Ø0.375	Ø0.867	0.78	0.06	Ø3/8	1/8
23	1921	50	6.45	2.625	2.27	Ø0.375	Ø1.501	0.94	0.06	Ø3/8	1/8
23	1921	100	6.50	2.625	2.27	Ø0.375	Ø1.501	0.94	0.06	Ø3/8	1/8
34	1920	100	6-9/16	3.875	3-5/16	Ø0.75	Ø2-7/8	1.0	0.09	Ø3/4	3/16
34	1920	1K	7.0	3.875	3-5/16	Ø0.75	Ø2-7/8	1.0	0.09	Ø3/4	3/16
42	1923	1K	8.78	4.950	4.38	Ø0.75	Ø2-3/16	1.22	0.10	Ø3/4	3/16

TorqStar™

Lebow®