

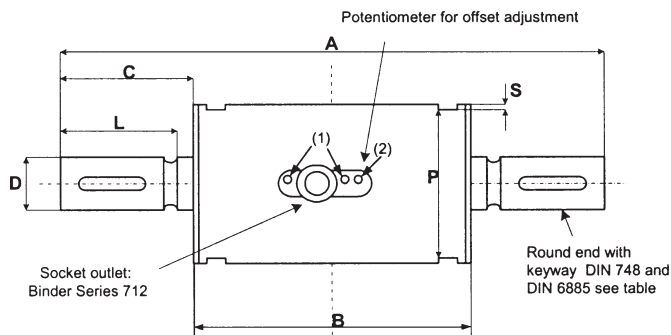
LXT 971 ROTATING TORQUE LOAD CELL

The LXT 971 torque transducer operates on the principle of magnetoelasticity. The sensors output signal is caused by a change in the magnetic field created by an applied torque on the sensor's shaft. Non-contact detectors, in close proximity to the shaft, detect changes in the magnetic field and provide an electrical signal proportional to the torque. The electronics in the sensor provide signal conditioning suitable for use in industrial and process applications. The zero output is 2.5v. The output span can range from 10mv/v to 2.5v in either direction.

- **LOW COST**
- **COMPACT SIZE**
- **FAST DELIVERY**
- **<1% ACCURACY**

SPECIFICATIONS

LOAD RANGES:	2.5 Nm to 500 Nm (1.8 ft.lb to 368 ft.lb)
ACCURACY:	±1% F.S.
LINEARITY:	<1% F.S.
HYSTERESIS:	<1% F.S.
REPEATABILITY:	0.2% F.S.
MATERIAL:	Steel
TEMPERATURE RANGE:	32° to 158°F
OUTPUT:	0.5 - 4.5 Vdc
BRIDGE RESISTANCE:	N/A
EXCITATION:	9-12 Vdc
SAFE OVERLOAD:	200 % of F.S.
RPM:	5000 Max Round Shaft 1000 Max Square Shaft
CABLE:	3 Ft with Mating Connector



AVAILABLE RANGES

LXT 971 Round to Round Shaft w/Keyways

	A	B	C	D	E	G	H	L	M	N	P	S
2.5 Nm	4.94	2.75	1.06	0.35	1.56	0.31	0.19	0.88	1.75	0.56	1.44	0.06
5.0 Nm	4.94	2.75	1.06	0.35	1.56	0.31	0.19	0.88	1.75	0.56	1.44	0.06
7.5 Nm	4.94	2.75	1.06	0.35	1.56	0.31	0.19	0.88	1.75	0.56	1.44	0.06
17.5 Nm	4.94	2.75	1.06	0.35	1.56	0.31	0.19	0.88	1.75	0.56	1.44	0.06
75 Nm	5.50	2.75	1.38	0.55	1.96	0.31	0.19	1.19	1.75	0.69	1.88	0.06
175 Nm	7.06	2.75	2.13	0.75	1.96	0.31	0.19	1.94	1.75	0.69	1.88	0.06
250 Nm	7.06	2.75	2.13	0.75	1.96	0.31	0.19	1.94	1.75	0.69	1.88	0.06
500 Nm	8.69	3.44	2.63	0.985	2.38	0.44	0.006	—	2.44	0.75	2.25	0.06

DIMENSIONS KEYWAY (in)

KEYSTONES

Round drive shaft	Width	Depth	Length	Height	Length	Amount
0.354	0.125	0.062	0.750	0.125	0.687	1
0.552	0.187	0.125	1.00	0.187	1.00	1
0.748	0.250	0.137	1.812	0.250	1.75	1
0.984	0.312	0.187	1.96	0.312	1.932	2

