

TLT Rotary Torque Transducer

Non-contacting in-line rotary torque transducer with bearing.

The TLT rotary torque transducer provides a budget torque measurement solution that can be used in a variety of applications, working at higher than average speeds of up to 10,000 rpm.

The TLT series has a non-contact data transmission system and integral signal conditioning providing a $\pm 5V$ analogue output with a $\pm 10V$ option. Shaft keys compliant to BS4235/ DIN6885 are also optional.

By the non contact transmission, the measurement data are transmitted maintenance-free and without signal distortion between rotor and stator.

The TLT series is available in a variety of sizes ranging from 0.2Nm up to 200Nm.

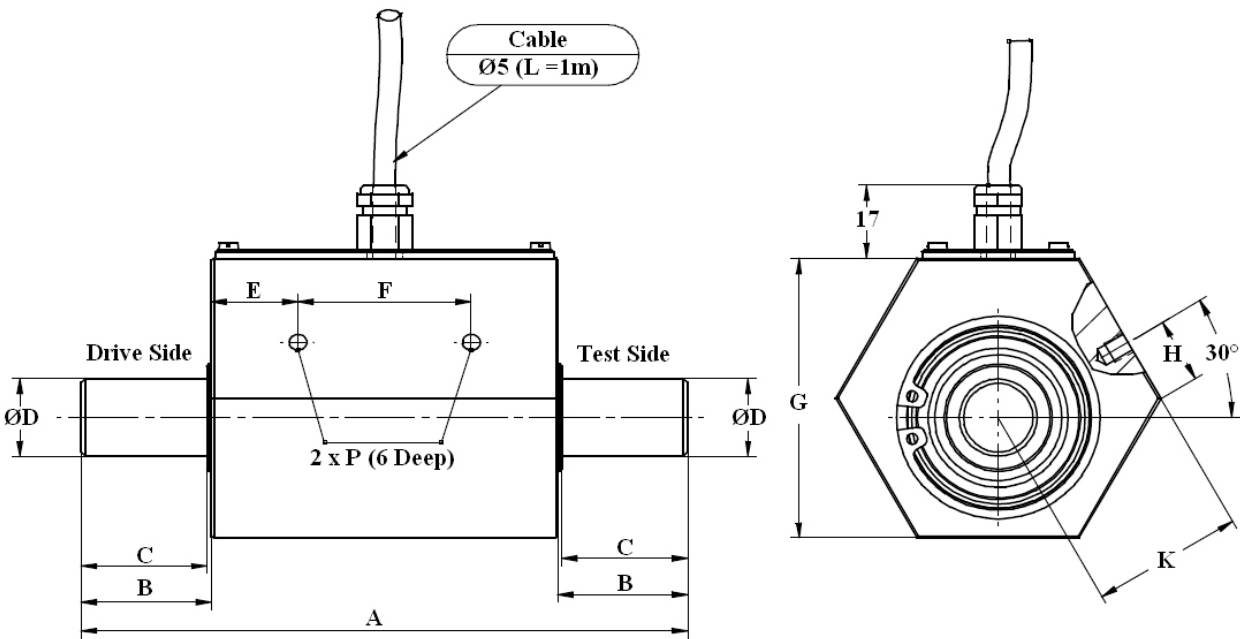
For pricing, availability or further technical information about the TLT series, contact us via our website at www.crane-electronics.com or get in touch via email at sales@crane-electronics.com.

Technical Specification

Full Scale Output:	$\pm 5V$
Operating Temp:	0 to $+60^{\circ}C$
Accuracy:	$\pm 0.25\%$ FS
Zero Shift:	$\pm 0.04\%/C^{\circ}$
Repeatability:	0.05% FS
Span Shift:	$\pm 0.02\%/C^{\circ}$
Max Speed:	8,000 to 10,000 rpm
Supply Voltage:	12 to 28VDC
Protection:	IP50
Supply Current:	$< 90mA$
Overload Capacity:	150% FS

Model TLT	Rated Torque (Nm)	Max. Speed (rpm)	Torsional Stiffness (Nm/rad)	Max. Axial Load (N)	Model TLT	Rated Torque (Nm)	Max. Speed (rpm)	Torsional Stiffness (Nm/rad)	Max. Axial Load (N)
0.2	0.2	10000	1.8×10^1	39	15	15	10000	8.9×10^2	520
0.5	0.5	10000	1.1×10^2	140	20	20	8000	8.4×10^3	1200
1	1.0	10000	2.2×10^2	170	50	50	8000	8.4×10^3	1200
2	2.0	10000	2.1×10^2	170	100	100	8000	2.0×10^4	3100
5	5.0	10000	8.9×10^2	520	200	200	8000	2.0×10^4	3100
10	10	10000	8.9×10^2	520					

Dimensions



Measuring Range (Nm)	A	B	C	D	E	F	G	H	K	P
0.2 / 0.5 / 1 / 2	100	18	17	8 g6	14.5	35	46	8	26	M4
5 / 10 / 15	100	18	17	10 g6	14.5	35	46	8	26	M4
20 / 50	140	30	29	18 g6	20	40	65	15	34.8	M5
100 / 200	160	40	39	22 g6	20	40	65	15	34.8	M5

All dimensions are in mm. Details may change without notice.



Locations

UK - Watling Drive, Hinckley, Leicestershire LE10 3EY, UK
 USA - 1260 11th Street West, Milan, Illinois 61264, USA
 Germany - Im Rank 5, 73655 Plüderhausen, Germany

