

TLT - In-line Rotary Torque Transducer

Product Overview

The TLT torque transducer provides a 'budget' torque measurement solution for numerous applications, at speeds up to 10,000 rpm.

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

System Specifications:

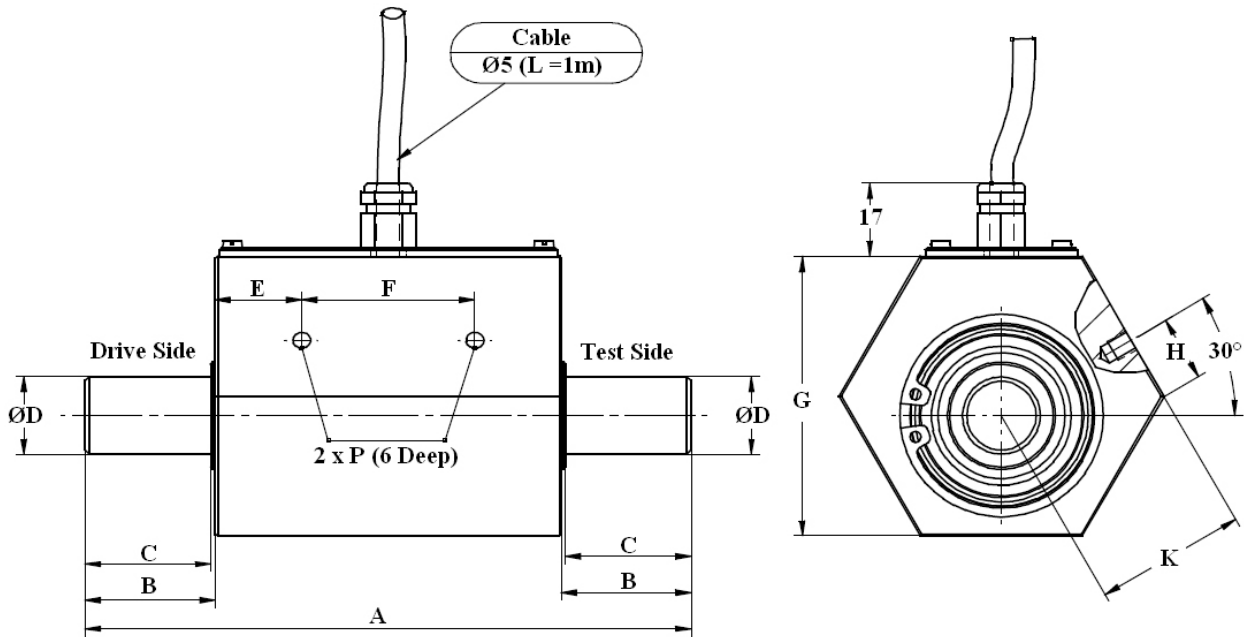
Full scale output:	$\pm 5V$	Operating Temp:	0 to $+60^{\circ}C$
Accuracy:	$\pm 0.25\% FS$	Zero Shift:	$\pm 0.04\%/C^{\circ}$
Repeatability:	0.05% FS	Span Shift:	$\pm 0.02\%/C^{\circ}$
Supply Voltage:	12 to 28VDC	Protection:	IP50
Supply Current:	$<90mA$	Overload Capacity:	150% FS

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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

For more information about the TLT range or for a quote, call +44 (0) 1455 25 14 88 or email sales@indmeas.co.uk.

Providing custom torque solutions

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