



TSS Static Torque Transducer

Square to square static torque reaction transducer.

The TSS range of torque reaction transducers provide a cost-effective solution to static or semi-rotary torque measurement issues. Typically, these units are used with torque wrenches and other square drive tools. A range of digital readouts and amplifiers, with different features, are available for these transducers.

Intermediate ratings are available at no extra cost. Parallel shaft and flanged units are also available; see our TLSP, TLSF and TSF ranges. The TSS is also available with gauge coatings suitable for sub-sea installations.

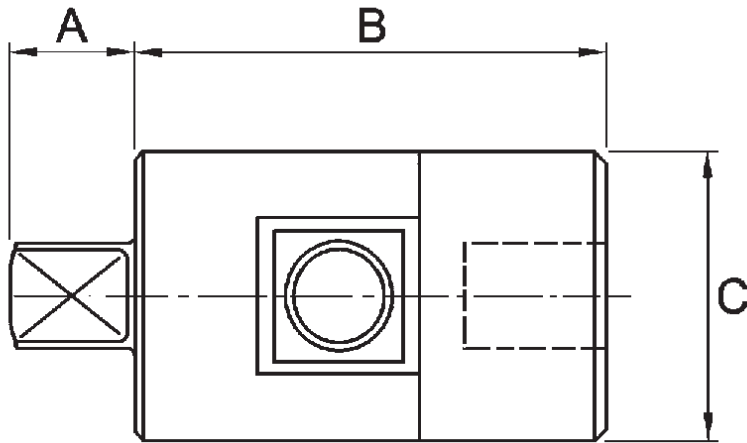
The TSS is available in a variety of sizes ranging from 5Nm up to 75,000Nm.

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

Technical Specification

Nominal Sensitivity:	1.5mV/V (1Nm unit is 1.0 mV/V)
Repeatability:	±0.05% fs
Accuracy:	±1.0% (10%-100% FS)
Operating Temp:	0 to +80°C
Overload Capacity:	150% fs
Compensated Range:	20 to +60°C
Bridge Supply:	10V
Storage Temp:	-30 to +90°C
Bridge Resistance:	700 ohms
Zero Shift:	< ±0.01%/C°
Non-linearity:	±0.1% fs
Span Shift:	< ±0.02%/C°
Hysteresis:	±0.1% fs

Dimensions



Model No.	Size	Square Size	A	B	C
TSS-5	5Nm	1/4"	7.5	41	32
TSS-10	10Nm	1/4"	7.5	41	32
TSS-50	50Nm	3/8"	11.5	58	35
TSS-100	100Nm	1/2"	15.5	58.5	35
TSS-500	500Nm	3/4"	23	79	54
TSS-1K	1KNm	1"	28	79	54
TSS-5K	5KNm	1½"	39	123	85
TSS-10K	10KNm	2½"	55	158	120
TSS-75K	75KNm	3½"	79	185	180

Wiring Details

The TSS5 to TSS100 have a 3 metre flying lead, not a connector. Where connectors are fitted the mating plug is also supplied.

PIN	Designation	Flying Lead Colours
A	Excitation (+)	Red
C	Excitation (-)	Blue
F	Signal (+)	Yellow
E	Signal (-)	Green
B	N/C	
D	N/C	

