# TTS - FLANGE-SQ-M STATIC TORQUE TRANSDUCER

## **Description**

This is static reaction torque transducer – **CE Certified**, flange mount with male SQ Drive at loading end is designed for industrial and research applications. It is constructed from Electro less Ni plated tool steel for harsh industrial applications. TTS-F-SQ-M is strain gage based sensor with full temperature compensation over 10 to 50°C. It is compensated for axial and side loads for very good linearity and low hysteresis. It is very compact and easy to install into the applications. It is available from 0-100 NM to 0-50000 NM capacities to cover vide industrial applications. It is suitable for clock wise and anti-clock wise directions

#### **Features**

- CE Rated Very compact and rugged for heavy duty applications.
- Compensated for axial and bending moments for good accuracy.
- Gage area is sealed for IP 65 degree of environmental class.
- Can be supplied as per customers required size and capacity.
- Both end shaft or one end shaft and other end flange type also can be supplied

### **Applications**

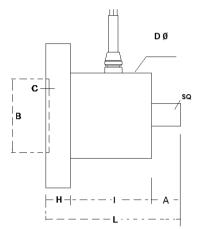
- Actuator/valve/electrical tool testing
- ❖ Axle/shaft torsion test
- Bearing friction measuring
- Testing of starters/slip rings/brushes/clutches/brakes
- Electric/hydraulic/pneumatic motors testing
- Alternators/pumps/gas, diesel, turbine engines testing
- Automobile testing of drive shaft and crank shaft torque
- Defense, Aerospace, R&D Establishments, Offshore test rigs, Automotive, machine tools,

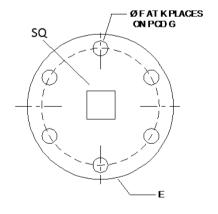
# **Performance Specification**

Standard Capacities	See Table below
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	2.0 m V/ V
Non - Linearity	< ±0.5% FSO
Hysteresis	< ±0.2% FSO
Non-Repeatability	< ±0.1% FSO
Creep (30 minutes)	< ±0.3% FSO
Zero Balance	±1.0% FSO
Input Resistance	392 ± 15 Ohms
Output Resistance	350 ± 3 Ohms
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Cable Length (4 Core Screened)	5 Meters
Safe Overload of Rated Capacity	150%
Ultimate Overload of Rated Capacity	250%
Temp. Compensated Range	10-50 °C
Temperature Effect on Output	< 0.0015% FSO/ °C
Temperature Effect on Zero	< 0.0020% FSO/ °C
Deflection	< 0.2 DEG. FSO
Finish & Construction	Tool Steel / Stainless Steel 17-4 PH
Environmental Protection Class	IP 65

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Capacity-NM	Α	В	С	D dia.	E-dia.	F X K PLCS.	G - PCD	Н		L	SQ
10,20,50,100	15	40	2.5	33	78	8.1 X 6	64	10	40	65	12.7(1/2")
200,300,500	25	50	2.5	47	100	8.1 X 8	80	12	43	80	19.1(3/4")
1K,1.5K	30	70	2.5	55	120	10.2 X 8	100	15	50	100	25.4(1")
2K, 3K, 5K	40	90	2.5	84	150	12.7 X 8	125	20	75	135	38.1(1 1/2")
10K	55	110	5	118	190	16.5 X 8	152	22	73	150	63.5(2 ½")
20K,30K	70	150	5	142	240	19.1 X 8	203	25	75	170	76.2(3")
50K	80	175	5	182	285	24.5 X 8	247	30	75	185	88.9(3 ½")

Specification are subject to change.

All dimensions are in mm.



Manufactured by:

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