TTS-FLANGE-SQD-FEMALE STATIC REACTION TORQUE TRANSDUCER-MINI

Description

This is static reaction torque transducer – **CE Certified**, flange mount with female SQ Drive at loading end. It is designed for industrial and research applications. It is constructed from Aluminum Alloy for light weight and handy operations. TTS-F-SQ-F is strain gage based sensor with full temperature compensation over $10 \text{ to } 50^{\circ}\text{C}$. 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 - 1 NM to 0 - 30NM capacities to cover vide industrial applications. It is suitable for clock wise and anti-clock wise directions. This sensor can be supplied with factory calibrated instrument with display, computer interface etc.

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

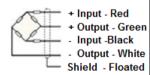
Applications

- ❖ 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, Electrical and Engineering Industries.

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)	3 Mtrs			
Safe Overload of Rated Capacity	150%			
mate Overload of Rated Capacity	250%			
Allowable Side Load	50%			
Temp. Compensated Range	10-50 °C			
Temperature Effect on Output	< 0.0015% FSO/ °C			
Temperature Effect on Zero	< 0.0020% FSO/ °C			
Deflection	< 0.4 mm at FSO			
Finish & Construction	Aluminum Alloy			
Environmental Protection Class	IP 65			

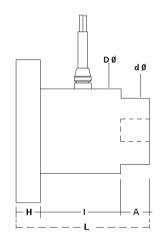
Electrical Termination

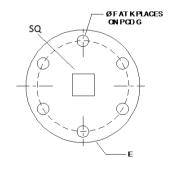


Options -

4-20 mA / 0-2 Volt Output
Digital Version with RS-485 interface /
USB output
Blue Tooth Or Wireless Telemetry
Compatible Instrument
Software for Graphic, Tabulation,
Reporting And Analysis







Capacity- NM	Α	d dia	D dia	E-Dia.	F X K PLCS.	G - PCD	Н	I	L	SQ
1, 2, 5, 10,20,30,	8	25	39	70	5.5 X 4	50	10	47	65	12.7(1/2")

Specifications are subject to change.

All dimensions are in mm.



Manufactured by:

ADI ARTECH
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