

Description

This is static reaction torque transducer, flange mount with female Shaft loading end is designed for industrial and research applications. It is constructed from Electroless Ni plated tool steel for harsh industrial applications. TTS-F-SQ-F 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 - 5000 NM capacities to cover wide industrial applications. It is suitable for clock wise and anti-clock wise directions

Features

- ❖ 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.

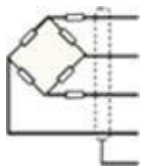
Applications

- ❖ 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/Submersible pumps/gas, diesel, turbine engines testing
- ❖ Automobile testing of drive shaft and crank shaft torque
- ❖ Defence, Aerospace, R&D Establishments, Offshore test rigs, Automotive, machine tools, electrical and engineering industries.

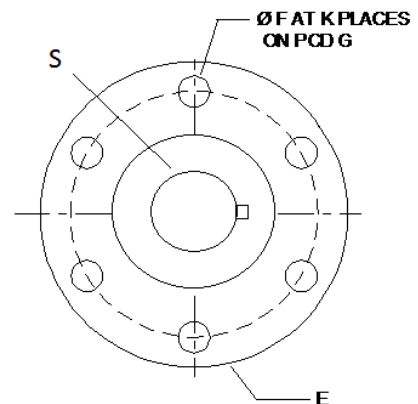
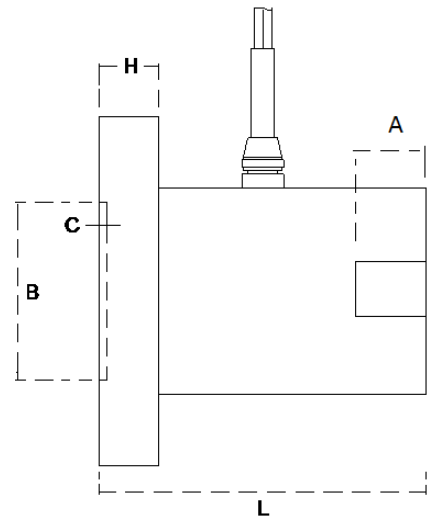
Performance Specification

Standard Capacities	100NM
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	1.5 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 Mtrs
Safe Overload of Rated Capacity	150%
Ultimate 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	Tool Steel / Stainless Steel 17-4 PH
Environmental Protection Class	IP 65 for gage area

Electrical Termination



+Input	Red
+Output	Green
-Input	Black
-Output	White
Shield	



ALL DIMENSIONS WILL BE DEFINED BY THE USER TO FIT TO THE SUBMERSIBLE PUMP.

Specification are subject to change.

All dimensions are in mm.



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