

Description

This is **CE Certified** static reaction torque transducer, flange mount type designed for industrial and research applications. It is constructed from Electro less Ni plated tool steel for harsh industrial applications. TTS-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. Both end flanges makes it very compact and easy to install into the applications.

It is available from 0 - 50 NM to 0 - 50000 NM capacities to cover wide industrial applications. It is suitable for clock wise and anti-clock wise directions. This can be offered with various electronic measuring combinations optionally.

Features

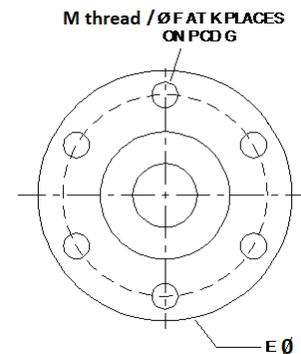
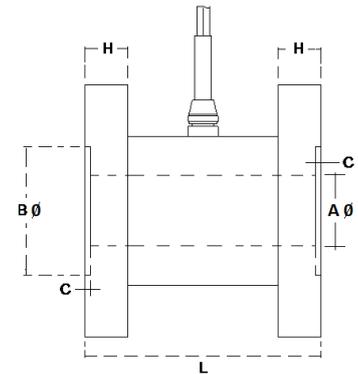
- ❖ **CE Compliance – EMC-2014/30/EU** ❖ Very compact and rugged
- ❖ Compensated for axial and bending moments for good accuracy.
- ❖ Gage area is sealed for IP 65 degree of environmental class.
- ❖ Can be supplied as per customers required size and capacity.
- ❖ Both end shaft or one end shaft and other end flange type combination can be supplied

Applications

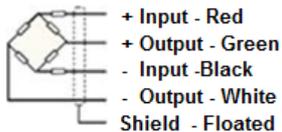
- ❖ Actuator/valve/electrical tool testing
- ❖ Axle/shaft torsion test
- ❖ Bearing friction measuring
- ❖ Testing of starters/slip rings/brushes/clutches/brakes
- ❖ Electric/hydraulic/pneumatic motors testing, Machine Tools Testing.
- ❖ Alternators/pumps/gas, diesel, turbine engines testing
- ❖ Automobile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

Performance Specification

Standard Capacities	50, 100, 200, 300, 500, 1K,1.5K, 2K,3K, 5K, 10K, 20K, 30K, 50KNM
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	2.0 m V/ V + / - 0.5
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%
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



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	A ø(Optional)	B ø	C	E ø	M threads/ ØF Thru Holes	K plc.	G-PCD	H	L
50, 100	10	40	2.5	78	8 / 8.1	6	64	10	70
200, 300, 500	15	50	2.5	100	8 / 8.1	8	80	12	90
1K	30	70	2.5	120	10 / 10.2	8	100	15	100
1.5K, 2K, 3K, 5K	60	90	2.5	150	12 / 12.7	8	125	20	100
10K	60	110	5	190	16 / 16.5	8	152	22	110
20K, 30K	60	150	5	240	19 / 19.5	8	203	25	120
50K	60	175	5	285	24 / 24.5	8	247	30	130

Specifications are subject to change.

All dimensions are in mm.



Manufactured by:

ADI ARTECH
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 (An ISO 9001:2015 Certified Company)

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