

MODEL**TTS-FF-M FLANGE TYPE STATIC REACTION TORQUE TRANSDUCER****Description**

TTS-FF-M is **CE Certified** mini static reaction torque transducer, flange mount type designed for industrial and research applications. It is constructed from Aluminum alloy. This is strain gage based sensor with full temperature compensation over 10 to 50°C. It is compensated for axial and bending moments 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 0-1 NM to 0-20 NM capacities to cover wide industrial applications. It is suitable for clock wise and anti-clock wise directions.

Features

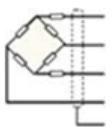
- ❖ Very compact and rugged. ❖ **CE Rated**
- ❖ Compensated for axial and bending moments for good accuracy.
- ❖ Gage area is sealed for IP 65 degree of environmental class.
- ❖ Can be supplied as per customers required size and capacity.
- ❖ Both end shaft or one end shaft and other end flange type 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
- ❖ Wood / pencil sharpening torque testing

Performance Specification

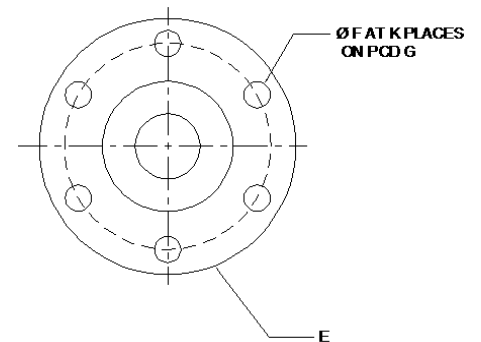
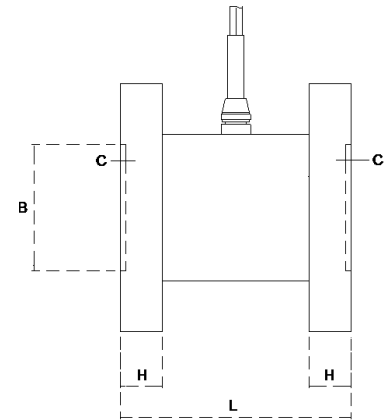
Standard Capacities	1 , 2 , 5 , 10 , 20 NM
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	2.0 m V/ V
Non - Linearity	< ±0.5% FSO
Hysteresis	< ±0.2% FSO
Non-Repeatability	< ±0.1% FSO
Creep (30 minutes)	< ±0.3% FSO
Zero Balance	±1.0% FSO
Input Resistance	392 ± 15 Ohms
Output Resistance	350 ± 3 Ohms
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Cable Length (4 Core Screened)	5 Mtrs
Safe Overload of Rated Capacity	150%
Ultimate Overload of Rated Capacity	250%
Allowable Side Load	50%
Temp. Compensated Range	0-60 °C
Temperature Effect on Output	< 0.0015% FSO/ °C
Temperature Effect on Zero	< 0.0020% FSO/ °C
Angular Deflection	< 0.2° at FSO
Finish & Construction	Aluminum Alloy 2024
Environmental Protection Class	IP 65

Electrical Termination

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

Options

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



Capacity-NM	B	C	E	F X K PLCS.	G - PCD	H	L
1,2,5,10,20	20	2	40	M4 X 4	32	8	62

Specifications are subject to change.

All dimensions are in mm.



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