TTS-MINI

STATIC REACTION TORQUE TRANSDUCER



Description

TTS-MINI is CE Certified precision type Static Reaction Torque Transducer useful in bottle cap sealing & opening, valves and fasteners testing. Its small size makes it easy to install in small space available in applications. Available range is from 1 NM to 30 NM. This can be fitted to the system easily through key ways provided at both cylindrical shaft ends. It is constructed from Aluminum Alloys 2024-T4 or Stainless Steel 17-4 PH material for ruggedness and harsh industrial applications. Its design is strain gauge based with full temperature compensation over 10 to 50 ºC range.

Applications

- Bottle cap sealing & removal
- Valve Testing
- Fastener Testing

Key Features

- High accuracy available as per standard BS 7882:2017/DIN 51309, ASTM E2428-15a
- Complete Environmental Protection – Meets IP 65
- Aluminum Alloy or Stainless steel constructions for shock and overload
- A high-temperature version can be provided on request
- Wide range of capacities from 1 NM to 30 NM.
- Standardized output (2.00 mV/V)and customized output can be provided on request
- Calibration in mV/V/Ω
- Can be **customized** to suit customer's need

ADI ARTECH
TRANSDUCERS PVT. LTD.
An ISO 9001:2015 Certified Company

www.adiartech.com|sales@adiartech.com, adiartech@adiartech.com
917/1, GIDC MAKARPURA, GUJARAT, VADODARA – 390 010, INDIA

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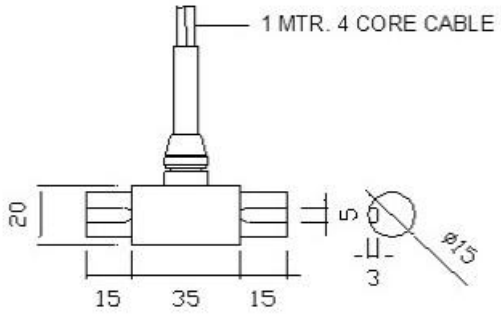
Technical Specifications

STANDARD CAPACITY	**1, 2, 3, 5, 10, 20, 30**	**NM**
PERFORMANCE	Accuracy value as per BS7882:2017/ DIN 51309 , ASTM E2428-15a	
	Non - Linearity	< ±0.1 % FSO
	Hysteresis	< ±0.1 % FSO
	Non-Repeatability	< ±0.1 % FSO
	Creep (30 minutes)	< ±0.3 % FSO
	Zero Balance	±1.0 % FSO
ELECTRICAL	Output	2.00 mV/V (Customized Output available on request)
	Excitation Voltage	Maximum 15 VDC (Suggested 5VDc / 10VDc)
	Input Resistance	392 ± 15 Ω (Ohms)
	Output Resistance	350 ± 3 Ω (Ohms)
	Insulation Resistance	(100 VDC) > 1000 Mega Ω (Ohms)
STRUCTURE	Safe Overload Of Rated Capacity	150%
	Ultimate Overload of Rated Capacity	250%
	Allowable Side Load	50%
	Rotational Angular Deflection	< 0.2º at FSO
	Finish Product	Aluminum Alloy 2024 – 1 to 10 NM Stainless Steel 17-4 PH – 20 to 30 NM
	As per IS/IEC 60529:2001	Meet to IP65
TEMP.	Operating Temperature	0ºC to 60ºC
	Compensated Temperature	10ºC to 50ºC
	Temperature Effect on Output	< 0.015 % FSO/ ºC
	Temperature Effect on Zero	< 0.020 % FSO/ ºC

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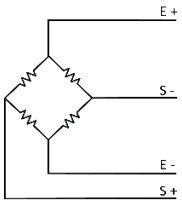
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Dimension (mm)



CAPACITY-NM	CABLE
1, 2, 3, 5, 10, 20, 30	1 Meter
All dimensions are in mm. ***Specification are subject to change.***	

Electrical Termination



Excitation(E+)	**Red**
Signal(S-)	**White**
Excitation(E-)	**Black**
Signal(S+)	**Green**
Shield	