

ATD-421

DYNAMIC TORQUE TRANSDUCER



DESCRIPTION

ADI CONTROL Dynamic Torque Transducer are General Purpose Rotary Type Sensor for Measurement of Torque in the Rotating Shaft or Equipment Coupled With.



APPLICATIONS

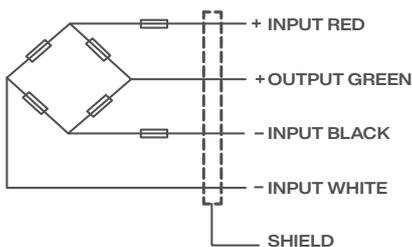
- Gear Box Testing
- Motor Torque Measurement
- Axle / Shaft Torsion Measurement
- Alternator & Turbine Torque Testing



KEY FEATURES

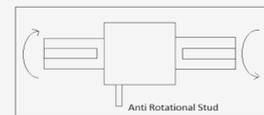
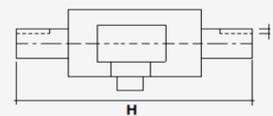
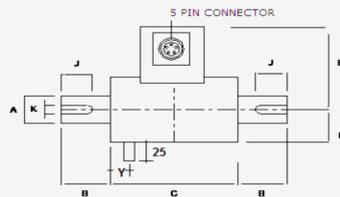
- Wide Range 10 NM to 5KNM
- RPM capacity up to 3000 RPM
- Custom Design as per Application

Electrical Termination



SPECIFICATION

Rated Capacity (NM)	: 10, 20, 50, 100, 200, 300, 500, 1K, 2K, 3K, 5K
Excitation Voltage	: 10VDC-Maximum 15 VDC
Full Scale Output	: 2.0 mV / V
Non - Linearity	: $\leq \pm 0.2\%$ FSO (Full scale Output)
Hysteresis	: $\leq \pm 0.1\%$ FSO
Non-Repeatability	: $\leq \pm 0.1\%$ FSO
Creep error (30 minutes)	: $\leq + 0.3\%$ FSO
Zero Load Output	: $\pm 10\%$ FSO
Input Resistance	: 390 Ohms
Output Resistance	: 350 Ohms
Insulation Resistance	: >1000 Mega Ohms
Safe Overload	: 150 % of Rated Capacity
Ultimate Overload	: 250 % of Rated Capacity
Temperature Compensated Range	: 10 to 60° C
Temperature Effect at Full Load	: $<0.005\%$ FSO/° C
Temperature Effect at Zero Load	: $<0.005\%$ FSO/° C
Rotational Angular Deflection	: $< 0.2^\circ$ at Full Scale
Finish & Construction	: Stain Less Steel 17-4 PH
Environment Protection	: IP 65



Capacity in NM	MAX RPM / Rotational Life	A	B	C	D (Approx)	E (Max)	H	J	K	L	Y
50	300 / 2 Million Rotation	20	32	115	25	74.5	180	25	6	3.5	20
100, 200	200 / 1.5 Million Rotation	25	39	102	28	77	180	25	8	4	21
300, 500, 1K	100 / 1 Million Rotation	40	46	109	36	85	200	40	12	5	23
2K, 3K, 5K	50 / 0.75 Million Rotation	60	62	116	50	105	240	60	18	7	26

All Dimensions are in mm



ADI CONTROLS

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