MODEL TTS-SQ SQUERE DRIVE STATIC REACTION TORQUE TRANSDUCER

Description

CE Certified TTS-SQ Torque Sensor used in industrial & research application where Torque is to be measured accurately. It is easily fitted in suitable test bench through Square Drive ends-male/female. It is constructed from stainless steel 17-4 PH material for ruggedness and harsh industrial applications. Its design is strain gage based with full temperature compensation

over 10 to 50°C range.							
 Features ◆ CE Rated ◆ Excellent selection of range from 0-10 to 0-50KNM. ◆ S.S. 17-4 PH construction for resistance against shock and overload. ◆ Complete Environmental Protection -IP65 class. ◆ Can be customized to suit customer's requirements. ◆ Axial & Bending force are compensated. 							
 Applications Motor, Switches, Shaft & Axle torque measurement. To measure operating Torque of Industrial Valve & actuators. Automotive, Aerospace & offshore valves test rigs. To measurement tightening Torque of Industrial Fasteners. 							
Performance Specification					(Com		
Standard Capacities(NM)		10, 20, 50, 100, 200, 300, 500, 1K, 2K, 3K, 5K, 10K, 20K, 30K, 50K					
Excitation Voltage		10 VDC- Maximum 15 VDC			7		
Nominal Output		2.0 m V/ V			27		
Non - Linearity		< ±0.1%FSO(Full Scale Output)				12924	
Hysteresis		< ±0.1% FSO					
Non-Repeatability	< ±	< ±0.1% FSO					
Creep (30 minutes)		< ±0.3% FSO					
Zero Balance	±1.0	±1.0% FSO					
Input Resistance	392	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%			<u> </u>	┦ ┞╲.	
Allowable Side Load		50%			~	Control 1	<i>*</i>
Temp. Compensated Range		10-50 °C					
Temperature Effect on Output		< 0.05% FSO/ ⁰ C			D	— c —	D
Temperature Effect on Zero		< 0.05% FSO/ ⁰ C					
Rotational Angular Deflection		< 0.4mm at FSO					
Fnish & Construction		Stainless Steel 17-4 PH					SQ_A
Environmental Protection Class		IP 65 for gage area					
Electrical Termination	Options						
+ Input - Red + Output - Green - Input -Black - Output - White Shield - Floated	Volt Output Digital Version USB output Blue Tooth Or	rsion with RS-485 interface / ut h Or Wireless Telemetry for Graphic, Tabulation, Reporting				B	
Capacity NM	A-appx.	В	C-appx.	D	-аррх.	SQ	
10, 20, 50	35	70	40	15		9.5(3/8")	
100, 200	35	70	40	15		12.5(1/2")	
300, 500 1K	50 60	100 120	50 60	25 30		19(3/4") 25.4(1")	
2K, 3K, 5K	85	155	75	40		38(1 1/2")	
10K	120	190	80	55		63.5(2 ½")	
20K, 30K	150	230	90	70		76.2(3")	
50К	150	260	100	80		89(3 ½")	
Speci	fications are su	bject to change.	. All d	imension	ns are in 1	mm.	



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

Manufactured by:

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