

TS21 MINIATURE SHAFT STYLE REACTION TORQUE TRANSDUCER (U.S. & METRIC)

FEATURES & BENEFITS

- Capacities from 1 to 100 Nm (8.85 to 885 lbf-in)
- Shaft ends with keys
- Very small measuring ranges

SPECIFICATIONS

ACCURACY – (MAX ERROR)		
Nonlinearity – %FS		±0.2
Hysteresis – %FS		±0.2
Non-repeatability – %RO		±0.01
TEMPERATURE		
Effect on Zero – %RO / °C		±0.02
Effect on Output – % / °C		±0.01
Compensated Range	°C	-5 to +45
	°F	+23 to +113
Operating Range	°C	-15 to +55
	°F	+5 to +131
ELECTRICAL		
Output – mV/V		1
Excitation Voltage – VDC		2 - 12
Bridge Resistance – Ohm		350
Electrical Connection	m	3
	ft	9.8
MECHANICAL		
Safe Overload – %RO		150
Angular Deflection at Rated Torque		< 0.2
IP Rating		50
Material		Alloy steel

STANDARD CONFIGURATION

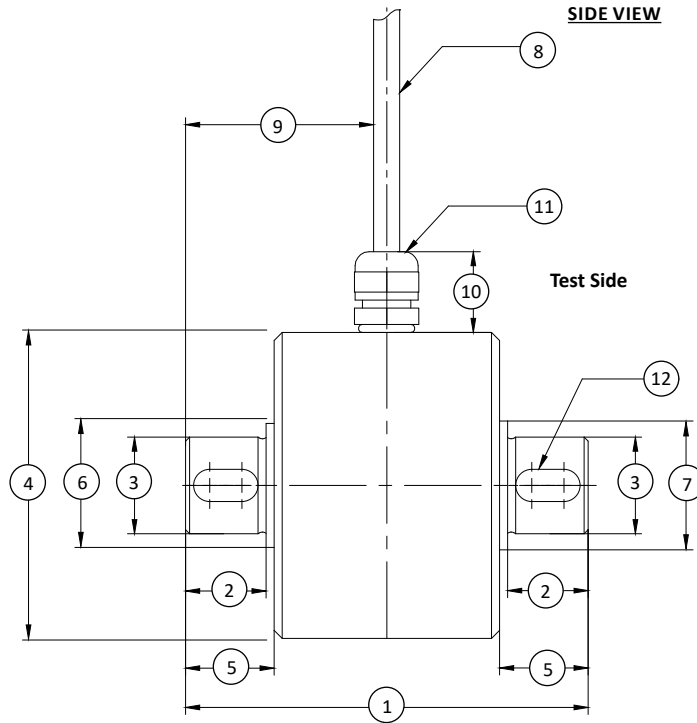


MODEL TS21 (Shown)

OPTIONS

- Enhanced Accuracy – 0.1% nonlinearity & hysteresis
- Internal Shunt Resistor – 100% output

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DIMENSIONS

See Drawing	CAPACITY			
	Metric (Nm)	U.S. (lbf-in)	Metric (Nm)	U.S. (lbf-in)
	1, 2, 5, 10, 20	8.85, 17.7, 44.3, 88.5, 177	50, 100	443, 885
	mm	in	mm	in
(1)	50	2.0	70	2.8
(2)	10	0.4	20	0.8
(3)	∅12 g6	∅0.4722 / 0.4718	∅18 g6	∅0.7084 / 0.7080
(4)	∅38	∅1.5	∅49	∅1.9
(5)	11	0.4	21.5	0.8
(6)	∅16	∅0.6	∅21	∅0.8
(7)	∅15.4	∅0.61	∅20.5	∅0.81
(8)	∅3.3	∅0.15	∅3.3	∅0.15
(9)	25	1.0	25	1.0
(10)	10	0.4	10	0.4
(11)	SW 8			
(12)	Keyway DIN 6885.1			

Datasheet TS21 Mini Shaft v2.2 08-10-2018

* U.S. dimensions and capacities are provided for conversion only. Standard product will be sold in kN and Metric dimensions. U.S. capacities available upon special request and at an additional cost.