

Model TS12 Shaft Style Reaction Torque Transducer

Why the Interface model TS12 Shaft Style Torque Transducer is the best in class:

- Capacities from 0.005 to 20K Nm (0.04 to 177K lb-in)
- Stainless steel shafts
- Compact

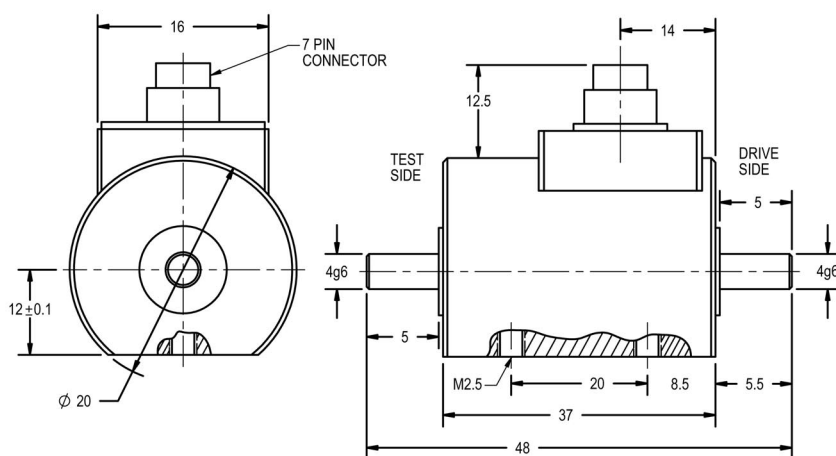


TS12 Shaft Style Torque Transducer

OPTIONS

100 % control signal (RCAL)

TS12 Shaft Style Reaction Torque Transducer -
Capacities 0.005, 0.01 & 0.02 Nm



Dimensions in mm

SPECIFICATIONS

ACCURACY – (MAX ERROR)

Combined Error—% FS ±0.1
Nonrepeatability—% ±0.02

TEMPERATURE

Effect on Zero—% RO/°C ±0.02
Effect on Output—%/°C ±0.01
Rated Range—°C -5 to +45
Operating Range—°C -15 to +55

ELECTRICAL

Torque Output—mV/V
0.005 Nm to 0.1 Nm 0.5
0.2 Nm to 5,000 Nm 0.8
10K Nm to 20K Nm 1.5
Excitation Voltage—VDC MAX 12
Bridge Resistance—Ohm 1,000
Electrical Connection 6 or 7 pin

MECHANICAL

Safe Overload—% RO
0.005 Nm to 0.1 Nm 300
0.2 Nm to 5K Nm 200
10K Nm to 20K Nm 150
Cyclic Load Rating—% RO
0.005 Nm to 0.1 Nm ±80 peak
0.2 Nm to 20K Nm ±70 peak
Shaft..... Stainless steel
Housing Aluminum

ELECTRICAL CONNECTION

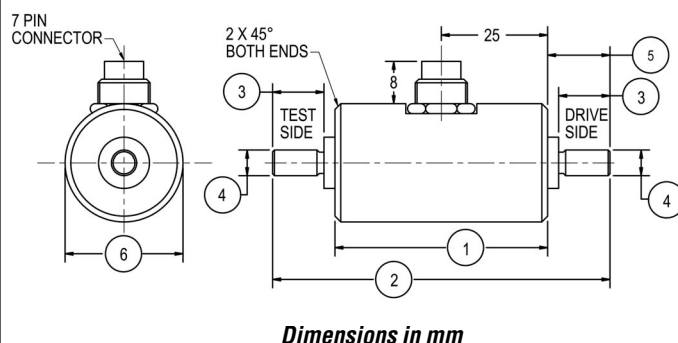
6-PIN TS12 ELECTRICAL CONNECTION	
Pin	Function
1	Excitation (-)
2	Excitation (+)
3	Shield
4	Signal (+)
5	Signal (GND)
6	Cal. Control (Option) Connect to Pin 2

7-PIN TS12 ELECTRICAL CONNECTION	
Pin	Function
1	Excitation (-)
2	Excitation (+)
3	Shield
4	Signal (+)
5	Signal (GND)
6	Cal. Control (Option) Connect to Pin 2
7	NC

TS12 Shaft Style Reaction Torque Transducer - Capacities 0.03 to 15 Nm

DIMENSIONS

Nominal Torque						
Capacity (Nm)	0.03, 0.05		0.1, 0.2, 0.3, 0.5, 1, 2, 5		10, 15	
Equivalent (lb-in)	0.26, 0.44		0.85, 1.77, 2.66 4.43, 8.85, 17.7, 44.3		8.85, 133	
	inch	mm	inch	mm	inch	mm
①	1.89	48	1.89	48	1.89	48
②	2.56	65	3.35	85	3.35	85
③	0.28	7	0.67	17	0.67	17
④	0.2361/ 0.2357	6 g6	0.3148/ 0.3144	8 g6	0.3935/ 0.3931	10 g6
⑤	0.32	8	0.71	18	0.71	18
⑥	1.26	32	1.26	32	1.26	32

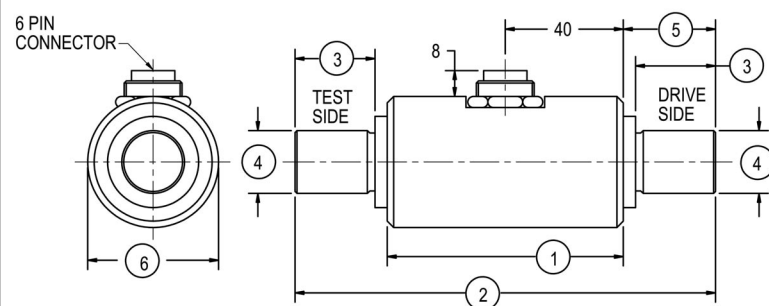


Dimensions in mm

TS12 Shaft Style Reaction Torque Transducer - Capacities 20 to 500 Nm

DIMENSIONS

Nominal Torque						
Capacity (Nm)	20, 30		50, 100		200, 500	
Equivalent (lb-in)	177, 265		443, 885		1.77K 4.43K	
	inch	mm	inch	mm	inch	mm
①	2.87	73	2.87	73	3.13	79.5
②	4.39	111.5	5.81	147.5	6.28	159.5
③	0.71	18	1.42	36	1.50	38
④	0.7087/ 0.7082	18 h6	0.7087/ 0.7082	18 h6	1.2598/ 1.2592	32 h6
⑤	0.75	19	1.46	37	1.58	40
⑥	2.01	51	2.01	51	2.60	66

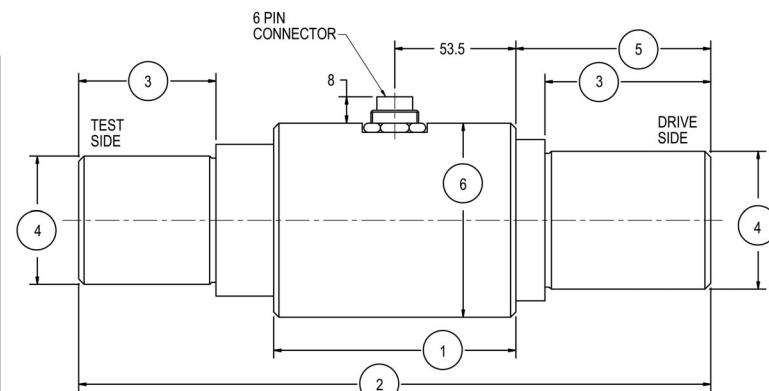


Dimensions in mm

TS12 Shaft Style Reaction Torque Transducer - Capacities 1,000 to 20,000 Nm

DIMENSIONS

Nominal Torque						
Capacity (Nm)	1K		2K, 5K		10K, 20K	
Equivalent (lb-in)	8.85K		17K, 44.3K		85.5K 177K	
	inch	mm	inch	mm	inch	mm
①	4.21	107	5.32	135	5.51	140
②	10.32	262	14.84	377	18.50	470
③	2.28	58	4.33	110	4.72	120
④	1.9685/ 1.9675	50 h7	2.7559/ 2.7549	70 h7	4.3307/ 4.3293	110 h7
⑤	2.60	66	4.96	126	6.30	160
⑥	3.82	97	4.41	112	6.81	173



Dimensions in mm