

T14 SLIP-RING ROTARY TORQUE TRANSDUCER (US & METRIC)

FEATURES & BENEFITS

- Capacities from 1 to 500 Nm (8.85 to 4.4K lbf-in)
- Integrated speed and angle measurement option
- Keyed shaft
- mV/V output
- Small, compact size
- 360 pulse speed and angle measurement

SPECIFICATIONS

ACCURACY – (MAX ERROR)		
Combined Error – %FS		±0.1
Non-repeatability – %		±0.05
TEMPERATURE		
Effect on Zero – %RO / °C		±0.02
Effect on Output – % / °C		±0.01
Rated Range	°C	+5 to +50
	°F	+41 to +122
Operating Range	°C	-10 to +60
	°F	+14 to +140
ELECTRICAL		
Output – VDC	1 Nm	+0.5
	8.85 lbf-in	
	2 - 500 Nm	+1.0
	17.7 - 4.43K lbf-in	
Bridge Resistance – Ohm		350
Electrical Connection – pin		12
MECHANICAL		
Safe Overload – %RO		130
Shaft Material		Alloy steel
Housing Material		Aluminum

STANDARD CONFIGURATION



MODEL T14 (Shown)

BRUSH LIFE

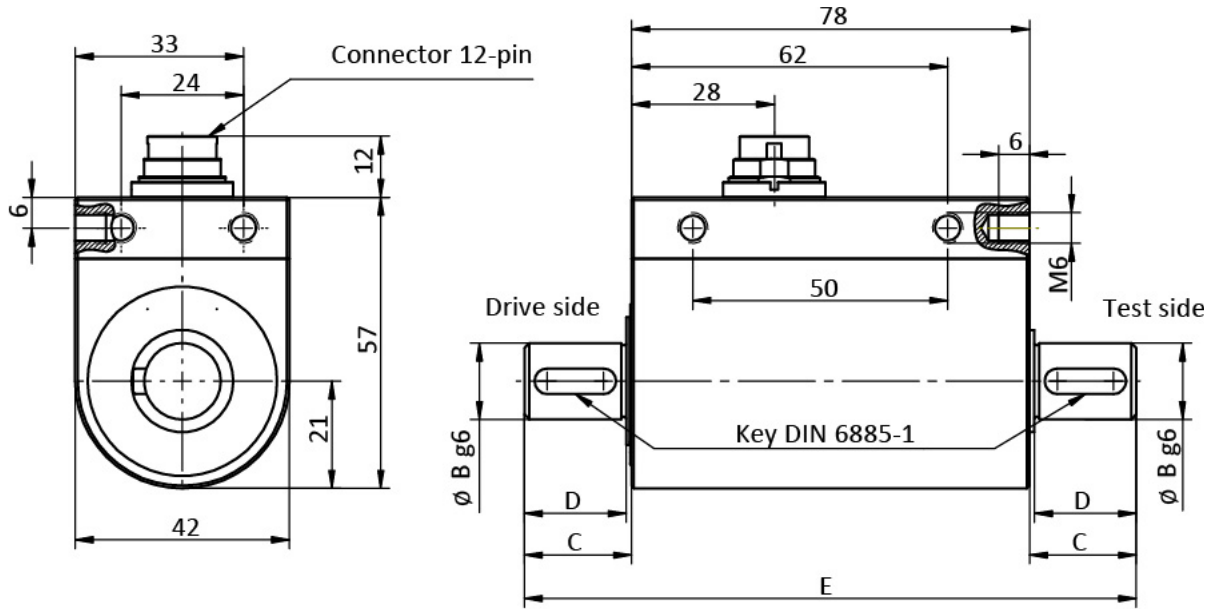
Speed (rpm)	CAPACITY					
	Nm		lbf-in		Nm	
	1, 2, 5, 10	8.85, 17.7, 44.3, 88.5	20, 50, 100	177, 443, 885	200, 500	1.77K, 4.43K
10	10 years		7.6 years		5.7 years	
100	138 days		62 days		55 days	
500	233 hours		166 hours		100 hours	
1000	83 hours		50 hours		33 hours	
1500	44 hours		27 hours		-	
2000	25 hours		-		-	

ELECTRICAL CONNECTION

Pin	T14 12-Pin with Encoder	
	Function	Description
A	Excitation (-)	0 V
B	Excitation (+)	2-12 V
C	Signal (+)	+ Output
D	Signal (-)	- Output
E	Excitation Angle	0 V
F	Excitation Angle	+5 V
G	Angle A	TTL
H	Angle B	TTL
J	Angle	0 V
K	100% R-Cal Option	Connect to Pin B
L	NC	-
M	Shield	-

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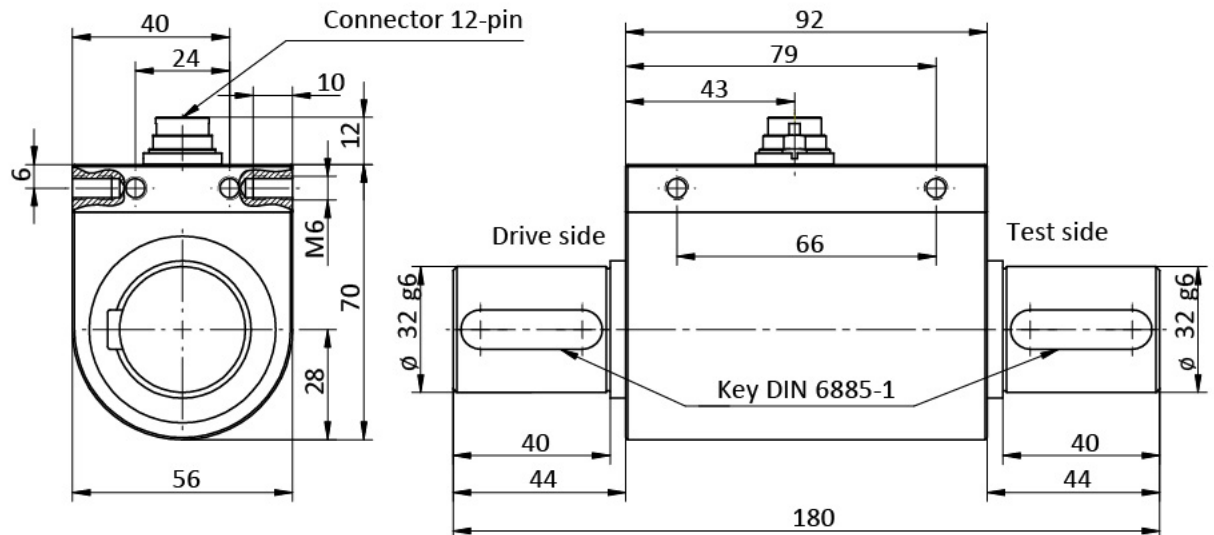
DIMENSIONS (CONTINUED)



All dimensions in mm

See Drawing	CAPACITIES			
	Metric (Nm)	U.S. (lbf-in)	Metric (Nm)	U.S. (lbf-in)
	20, 50	177, 443	100	885
	mm	in	mm	in
(B)	15	0.6	18	0.7
(C)	21	0.8	25	1
(D)	20	0.8	24	0.94
(E)	120	4.7	128	5.04

DIMENSIONS (CONTINUED)



All dimensions in mm

CAPACITIES	
Metric (Nm)	U.S. (lbf-in)
200	1.77K
500	4.43K