

Model T14 Slip-Ring Rotary Torque Transducer

Why the Interface model T14 Slip-Ring Rotary Torque Transducer is the best in class:

- Capacities from 1 to 500 Nm (8.85 to 4.4K lb-in)
- Integrated speed and angle measurement option
- Both shaft ends with keyway



T14 Slip-Ring Torque Transducer

SPECIFICATIONS

ACCURACY – (MAX ERROR)

Combined Error-% FS±0.1
Nonrepeatability-%±0.05

TEMPERATURE

Effect on Zero-% RO/°C±0.02
Effect on Output-%/°C±0.01
Rated Range-°C+5 to +50
Compensated Range-°C-10 to +60

ELECTRICAL

Output-mV/V2.0
Bridge Resistance-Ohm350
Electrical Connection12-pin

MECHANICAL

Safe Overload-% RO130
Cyclic Load Rating-% RO.....±70 peak
Shaft.....Stainless steel
HousingAluminum

OPTIONS

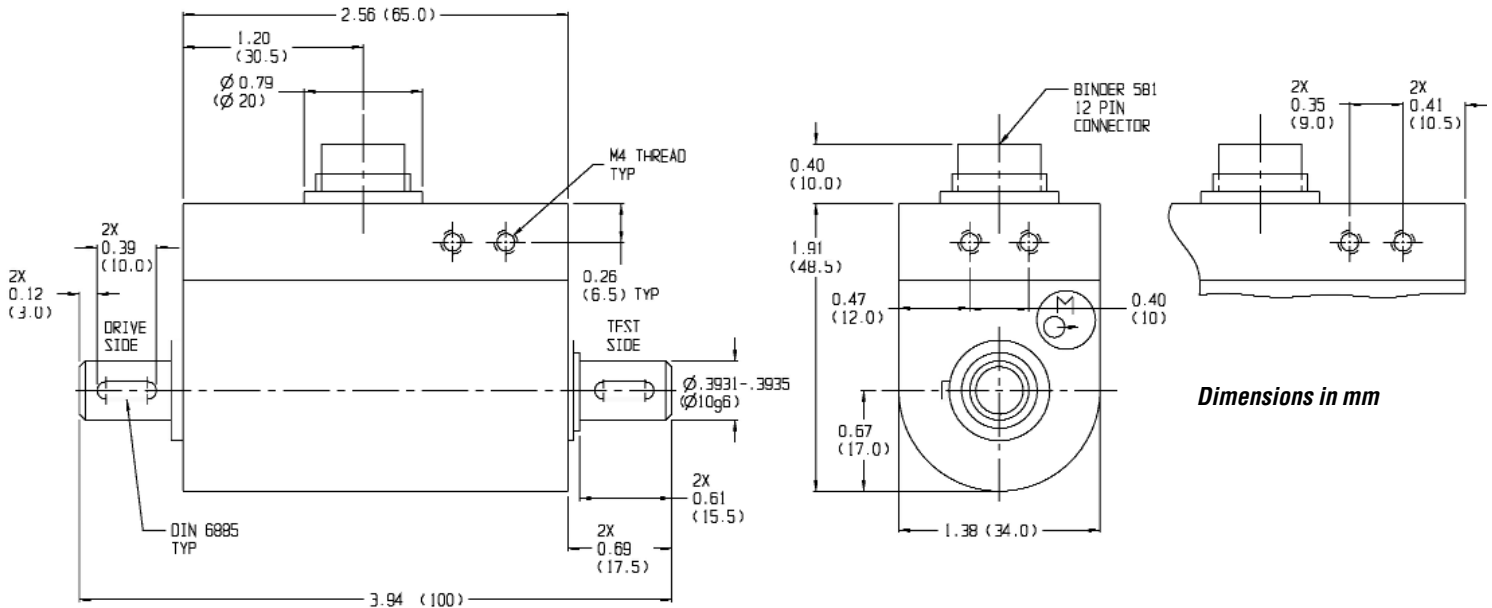
Speed & Angle Measurement - 360 Pulse TTL,
2-Tracks 90° Offset
Internal R-CAL, 100%

T14 SLIP-RING TORQUE TRANSDUCER PERFORMANCE PARAMETERS

CAPACITY (Nm)	SENSITIVITY (mV/V)	CONTINUOUS MAX SPEED (min ⁻¹)	SPRINGRATE (Nm/rad)	MAXIMUM LATERAL LOAD (N)	MOMENT OF INERTIA, J (Kgxm ²) Drive Side	WEIGHT (Kg)
1	0.5	3,000	2.3x10 ²	4	3.3x10 ⁻⁶	0.5
2	0.5	3,000	2.3x10 ²	5	3.3x10 ⁻⁶	0.5
5	2	3,000	2.9x10 ²	7	3.3x10 ⁻⁶	0.5
10	2	3,000	5.6x10 ²	7.5	1.1x10 ⁻⁵	0.5
20	2	3,000	1.6x10 ³	12	1.1x10 ⁻⁵	0.6
50	2	3,000	4.1x10 ³	28	1.1x10 ⁻⁵	0.6
100	2	3,000	7.9x10 ³	65	1.3x10 ⁻⁵	0.6
200	2	3,000	2.8x10 ⁴	80	1.0x10 ⁻⁴	1.3
500	2	3,000	5.3x10 ⁴	200	1.0x10 ⁻⁴	1.3

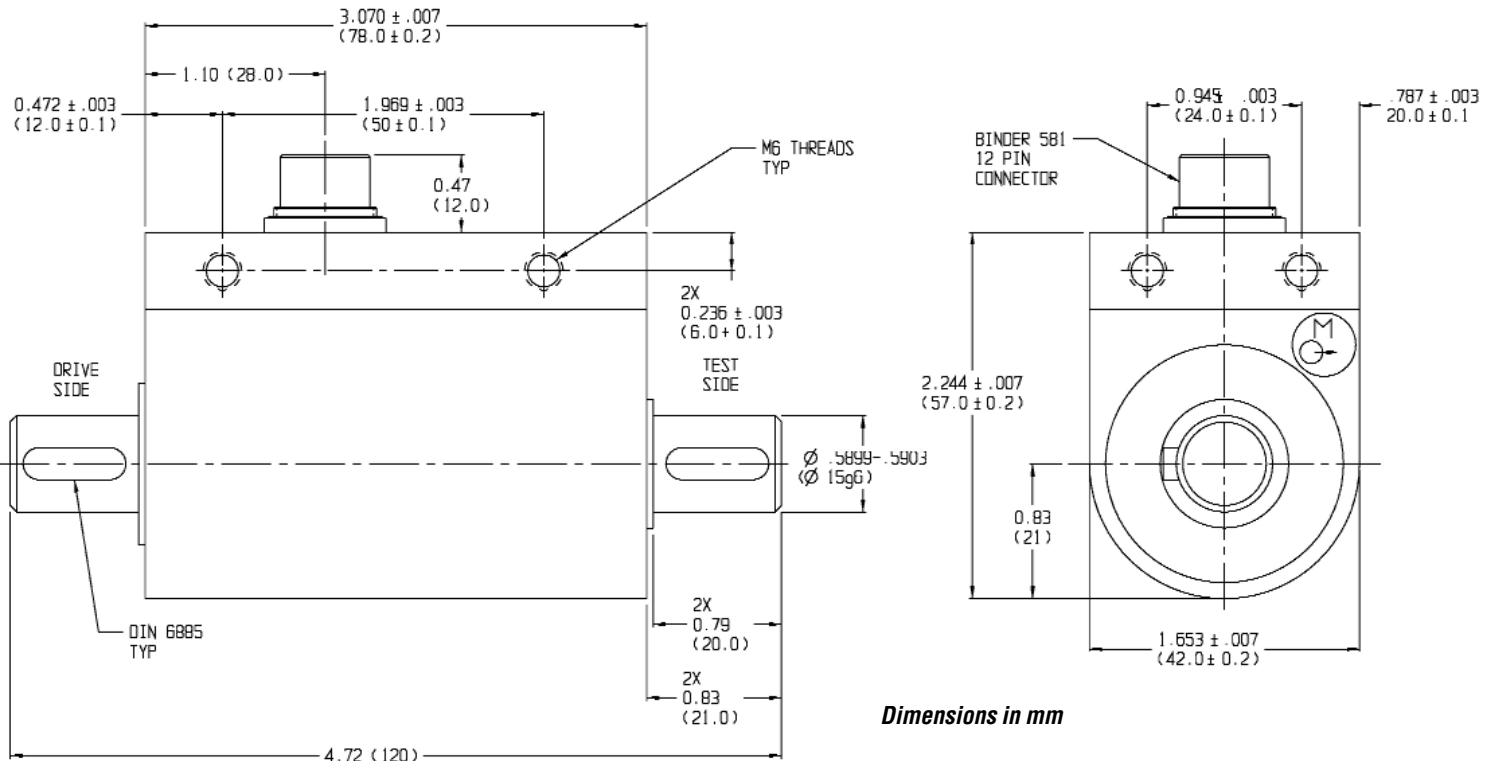
Model T14 Slip-Ring Rotary Torque Transducer - Capacities 1 to 10 Nm (8.85 to 88.5 lb-in)

DIMENSIONS



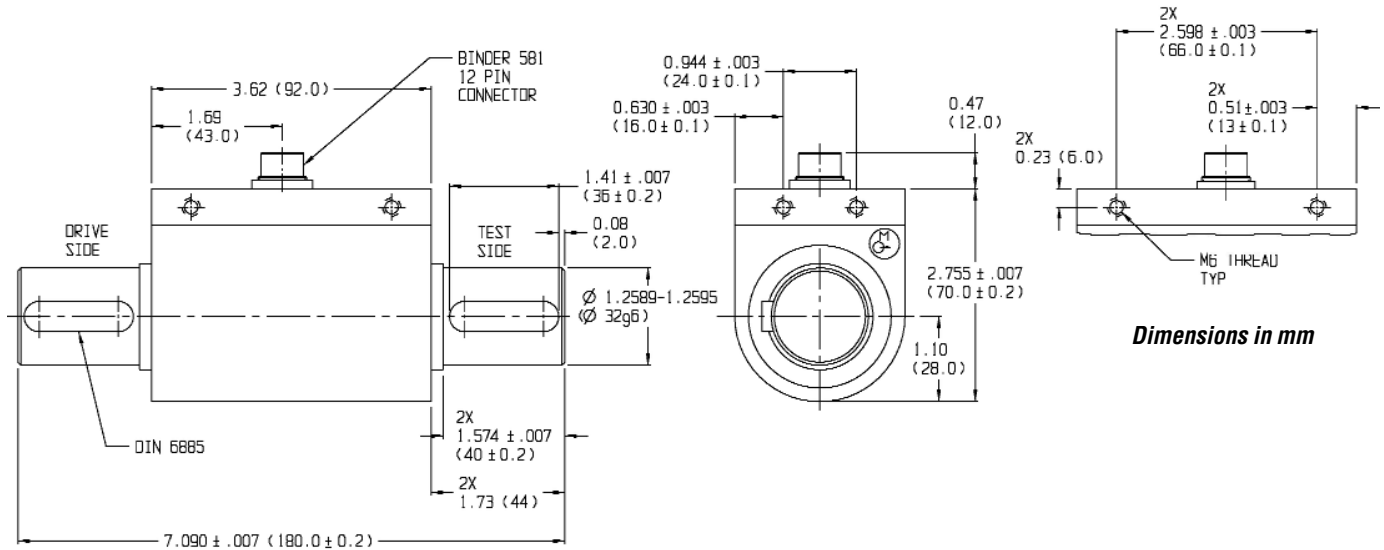
Model T14 Slip-Ring Rotary Torque Transducer - Capacities 20 to 50 Nm (177 to 443 lb-in)

DIMENSIONS



Model T14 Slip-Ring Rotary Torque Transducer - Capacities 200 to 500 Nm (1.77K to 4.4K lb-in)

DIMENSIONS



ELECTRICAL CONNECTION

12-PIN T14 SLIP-RING		
Pin	Function	Description
A	Excitation (GND)	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	R-CAL	Connect to Pin B
L	NC	-
M	Shield	