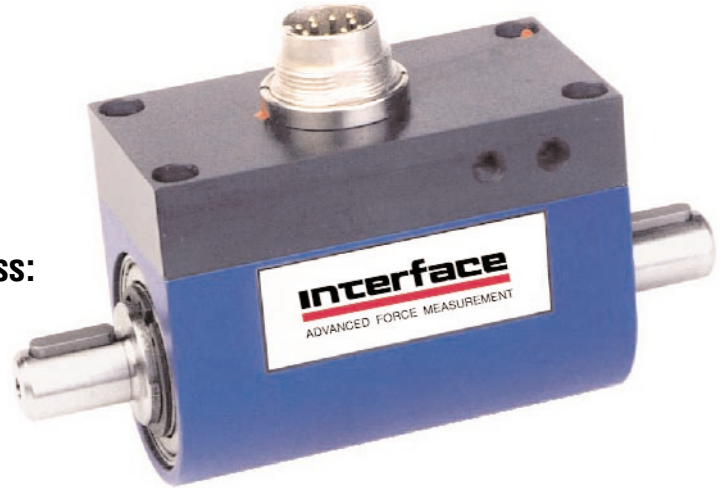


# Model T14 Slip-Ring Rotary Torque Transducer

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/V .....2.0  
 Bridge Resistance–Ohm .....350  
 Electrical Connection .....12-pin

**MECHANICAL**

Safe Overload–% RO .....130  
 Cyclic Load Rating–% RO.....±70 peak  
 Shaft.....Stainless steel  
 Housing .....Aluminum

## OPTIONS

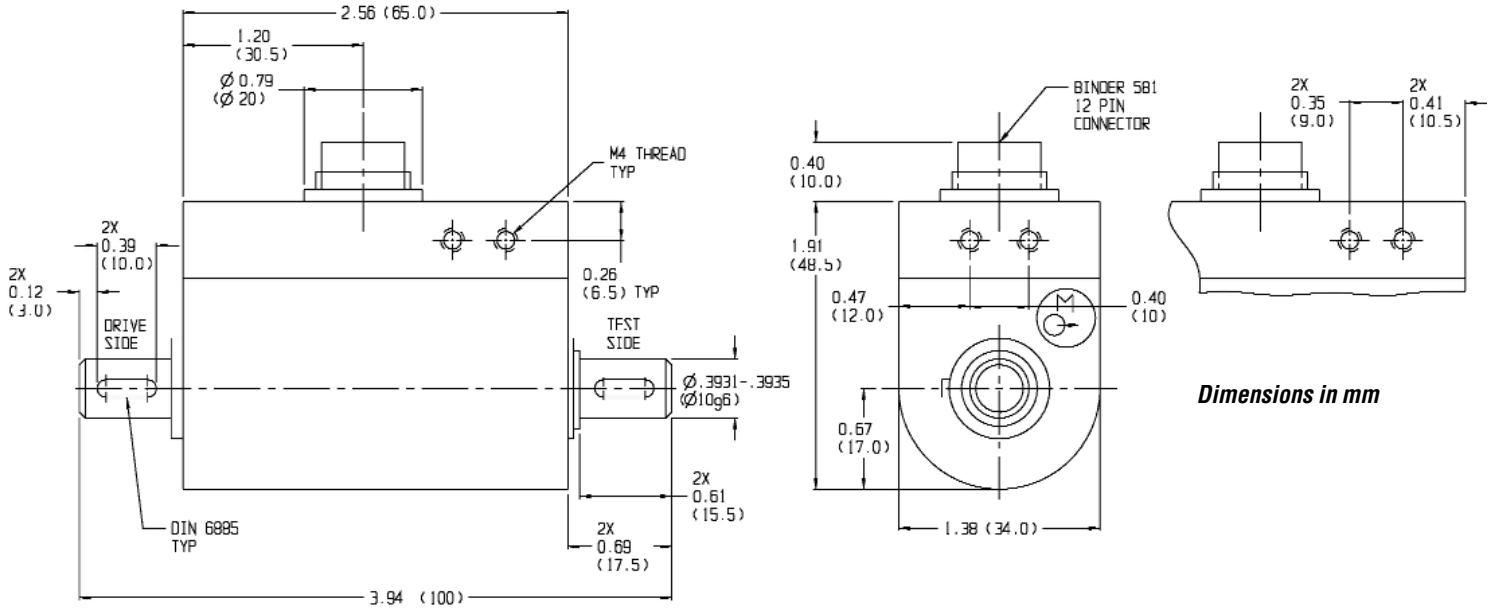
Speed & Angle Measurement - 360 Pulse TTL,  
 2-Tracks 90° Offset  
 Internal R-CAL, 100%

### T14 SLIP-RING TORQUE TRANSDUCER PERFORMANCE PARAMETERS

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

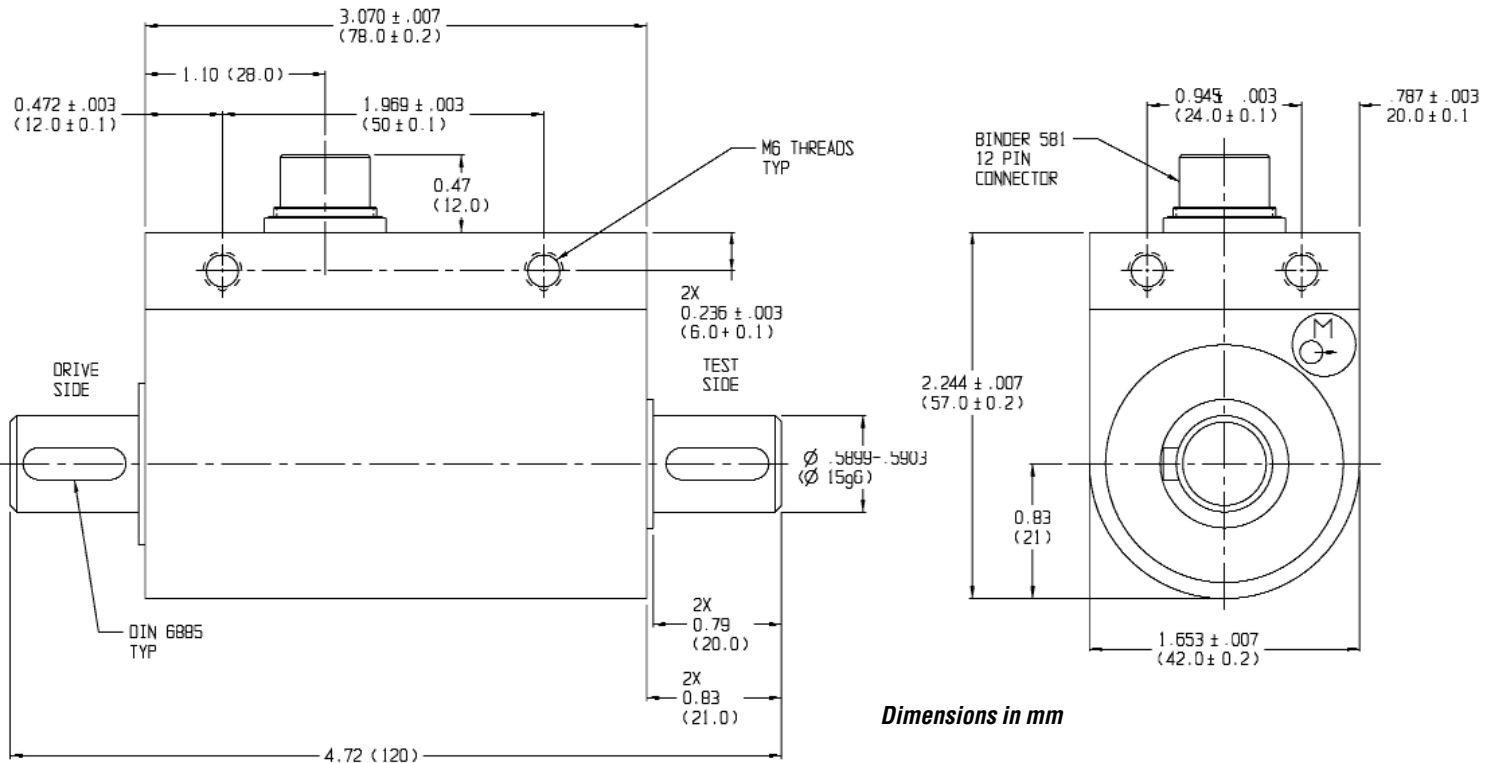
**Model T14 Slip-Ring Rotary Torque Transducer - Capacities 1 to 10 Nm (8.85 to 88.5 lb-in)**

**DIMENSIONS**



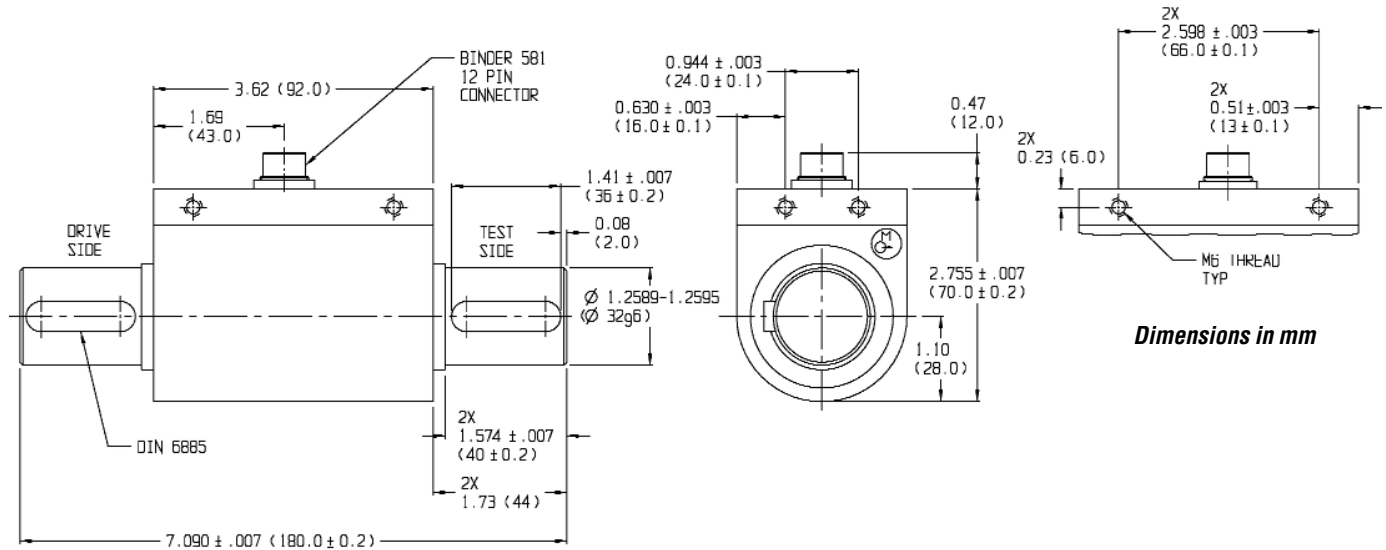
**Model T14 Slip-Ring Rotary Torque Transducer - Capacities 20 to 50 Nm (177 to 443 lb-in)**

**DIMENSIONS**



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

**DIMENSIONS**



Dimensions in mm

**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	