

Model T15 Hex Drive Rotary Torque Transducer

Why the Interface model T15 Hex Drive
Rotary Torque Transducer is the best in class:

- Capacities from 0.2 to 20 Nm
(1.77 to 177 lbf-in)
- Contactless - no slip rings
- High-level $\pm 5V$ output
- 12-28V supply
- Angle measurement option
- Quick-Connect chuck



T15 Hex Drive Rotary Torque Transducer

OPTIONS

Angle Measurement - 360 Pulse TTL, 2-Tracks 90° Offset
 $\pm 10 V$ Torque Output
Enhanced Accuracy - Combined Error $\pm 0.1\%$
RS485 Output (Uses 12-pin connector, replaces $\pm 5 V$)

SPECIFICATIONS

ACCURACY – (MAX ERROR)	Standard	Enhanced
Combined Error–% FS	± 0.25	± 0.1
Nonrepeatability–%	± 0.05	± 0.02
TEMPERATURE		
Effect on Zero–% RO/°C	± 0.05	± 0.02
Effect on Output–%/°C	± 0.02	± 0.01
Rated Range–°C	+5 to +45	+5 to +45
Operating Range–°C	0 to +60	0 to +60
ELECTRICAL		
Output–VDC	± 5	± 5
Bandwidth, Hz	1 kHz-3dB	3 kHz-3dB
Calibration Signal–% RO	100	100
Supply Voltage–VDC	12 to 28	12 to 28
Supply Current–mA	60	60
Electrical Connection	8-pin	8-pin
MECHANICAL		
Safe Overload–% RO	200	200
Cyclic Load Rating–% RO	± 70 peak	± 70 peak
Max Speed - rpm	See table	See table
Housing	Aluminum	Aluminum

T15 HEX DRIVE ROTARY TORQUE TRANSDUCER PERFORMANCE PARAMETERS

CAPACITY (Nm)	HEXAGON (INCH)	MAX RPM	SPRINGRATE (Nm/rad)	MOMENT OF INERTIA (Kgx ^m)		MAX. THRUST LOAD (N)
				Drive Side	Test Side	
0.1	0.25	3,000	1.0	2.5x10 ⁻⁶	2.9x10 ⁻⁷	15
0.2	0.25	3,000	1.0	2.5x10 ⁻⁶	2.9x10 ⁻⁷	20
0.5	0.25	3,000	5.8	2.5x10 ⁻⁶	2.9x10 ⁻⁷	30
1	0.25	4,000	2.3x10 ²	2.6x10 ⁻⁶	3.0x10 ⁻⁷	40
2	0.25	4,000	2.9x10 ²	2.6x10 ⁻⁶	3.0x10 ⁻⁷	50
5	0.25	4,000	4.6x10 ²	2.6x10 ⁻⁶	3.1x10 ⁻⁷	50
10	0.25	4,000	5.2x10 ²	2.6x10 ⁻⁶	3.3x10 ⁻⁷	50
15	0.25	4,000	5.2x10 ²	2.6x10 ⁻⁶	3.3x10 ⁻⁷	100
20	0.25	4,000	5.2x10 ²	2.6x10 ⁻⁶	3.3x10 ⁻⁷	100

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Capacities 0.2 to 20 Nm

DIMENSIONS

Nominal Torque							
Capacity (Nm)	0.2	0.5	1	2	5	10	20
Equivalent (lb-in)	1.77	4.43	8.85	17.7	44.3	88.5	177
See Drawing							

