

Model T8 ECO Rotary Torque Transducer

Why the Interface model T8 ECO Rotary Torque Transducer is the best in class:

- Capacities from 0.2 to 200 Nm (1.77 to 1.77K lb-in)
- Stainless steel shaft
- ±5 VDC output
- 12-28 VDC supply
- Contactless



T8 ECO Rotary Torque Transducer

SPECIFICATIONS

ACCURACY – (MAX ERROR)

Combined Error-% FS±0.25
 Nonrepeatability-%±0.05

TEMPERATURE

Effect on Zero-% RO/°C±0.04
 Effect on Output-%/°C±0.02
 Rated Range-°C+5 to +45
 Operating Range-°C0 to +60

ELECTRICAL

Output-VDC±5
 Bandwidth, Hz1 kHz-3dB
 Supply Voltage-VDC.....12 to 28
 Supply Current-mA90
 Electrical ConnectionIntegral cable,
 3-ft

MECHANICAL

Safe Overload-% RO180
 Cyclic Load Rating-% RO.....±70 peak
 Max Speed - rpmVaries with
 capacity,
 see table

Shaft.....Stainless steel
 HousingAluminum

T8 INTEGRAL CABLE WIRING CODE		
Function	Description	Color
Supply (+)	12 to 28 VDC	Brown
Supply (GND)	0 VDC	Green
Signal (+)	±5 VDC	Yellow
Signal (GND)	0 VDC	White
Shield	Shield	Shield

T8 ECO ROTARY TORQUE TRANSDUCER PERFORMANCE PARAMETERS

CAPACITY (Nm)	MAX RPM	SPRINGRATE (Nm/rad)	MOMENT OF INERTIA, J (Kgxm ²)		MAX. THRUST LOAD (N)
			Drive Side	Test Side	
0.2	8,000	1.6	1.6x10 ⁻⁶	1.0x10 ⁻⁶	20
0.5	8,000	9.6	1.6x10 ⁻⁶	1.0/10 ⁻⁶	30
1	8,000	3.6x10 ²	1.6x10 ⁻⁶	1.1x10 ⁻⁶	40
2	8,000	8.9x10 ²	1.6x10 ⁻⁶	1.1x10 ⁻⁶	40
5	8,000	8.9x10 ²	1.7x10 ⁻⁶	1.1x10 ⁻⁶	50
10	8,000	8.9x10 ²	1.7x10 ⁻⁶	1.1x10 ⁻⁶	50
15	8,000	8.4x10 ³	1.7x10 ⁻⁶	1.1x10 ⁻⁶	50
20	6,000	8.4x10 ³	4.2x10 ⁻⁵	2.1x10 ⁻⁵	1,600
50	6,000	8.4x10 ³	4.2x10 ⁻⁵	2.1x10 ⁻⁵	1,600
100	6,000	2.0x10 ⁴	4.7x10 ⁻⁵	2.7x10 ⁻⁵	3,000
200	6,000	2.0x10 ⁴	4.2x10 ⁻⁵	2.7x10 ⁻⁵	3,000

OPTIONS

Extra Cable Length

T8 ECO Rotary Torque Transducer - Capacities 0.2 to 200 Nm

DIMENSIONS

Nominal Torque									
Capacity (Nm)	0.2, 0.5, 1, 2		5, 10, 15		20, 50		100, 200		
Equivalent (lb-in)	1.77, 4.43, 8.85, 17.7		44.3, 88.5, 133		177, 443		885, 1.77K		
	inch	mm	inch	mm	inch	mm	inch	mm	
①	3.94	100	3.94	100	5.51	140	6.30	160	
②	0.71	18	0.71	18	1.18	30	1.57	40	
③	0.67	17	0.67	17	1.14	29	1.53	39	
④	0.3148/ 0.3144	8g6	0.3935/ 0.3931	10g6	0.7087/ 0.7082	18g6	0.8659/ 0.8654	22g6	
⑤	0.57	14.5	0.57	14.5	0.79	20	0.79	20	
⑥	1.38	35	1.38	35	1.57	40	1.57	40	
⑦	1.81	46	1.81	46	2.56	65	2.56	65	
⑧	0.31	8	0.31	8	0.59	15	0.59	15	
⑨	1.02	26	1.02	26	1.37	34.8	1.37	34.8	
⑩	M4	M4	M4	M4	M5	M5	M5	M5	



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