

Model T8 ECO Rotary Torque Transducer

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



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–°C	0 to +60
ELECTRICAL	
Output–VDC	±5
Bandwidth, Hz	1 kHz-3dB
Supply Voltage–VDC	12 to 28
Supply Current–mA	90
Electrical Connection	Integral cable, 3-ft
Resolution	Analog
MECHANICAL	
Safe Overload–% RO	180
Cyclic Load Rating–% RO	±70 peak
Max Speed–rpm	Varies with capacity. See Table
Shaft	Stainless Steel
Housing	Aluminum

OPTIONS

- Extra Cable Length
- Keyed shafts – per Din 6885.1

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

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	1.8x10 ¹	1.6x10 ⁻⁶	1.0x10 ⁻⁶	20
0.5	8,000	1.1x10 ²	1.6x10 ⁻⁶	1.0x10 ⁻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	4.7x10 ⁻⁵	2.7x10 ⁻⁵	3,000

T8 051311

Model T8 ECO Rotary Torque Transducer –
Capacities 0.2 to 200 Nm

DIMENSIONS



Capacity (Nm)	Nominal Torque							
	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

