SX-4404

Features:

- Torque and position multi-turn output
- Ideally suited for demanding electric power steering systems







Electrical

Torque Signal Linearity	±3%
Torque Hysteresis	0.5% maximum
Torque Signal Microgradient	±30% of theoretical slope over 0.4° interval
Torque Sensed Angle	±5°
Position Signal Linearity (P1, P2)	±1.5%
Position Signal Microgradient (P1, P2)	±30% of theoretical slope over 2° interval
Multi-turn Position Accuracy (P3)	±3%
Multi-turn Position Sensed Angle	±720°
Total Resistance	471 Ω ±30%

Mechanical

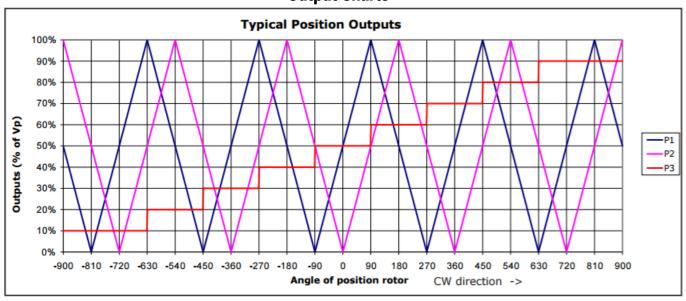
Torque Mechanical Travel	±11.4°
Position Mechanical Travel	Continuous
Turning Torque (rotor to rotor)	0.03 NM maximum
Turning Torque (position rotor to housing)	0.06 NM maximum
Weight	95 grams maximum

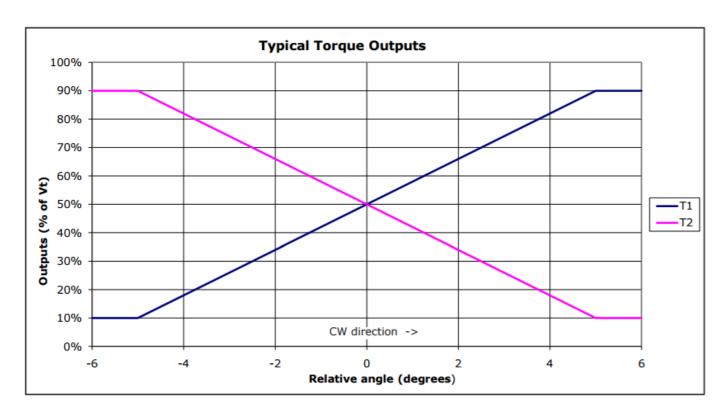
Environmental

Operating Temperature Range	-40°C to +85°C
Shock	14 ms half-sine at 300 m/s ²
Vibration	10 to 55 Hz with 1 mm P-P constant displacement, 120 hours each of 3 planes
Torque Rotational Life	1 million cycles
Position Rotational Life	1 million cycles
Storage Temperature Range	-40°C to +105°C



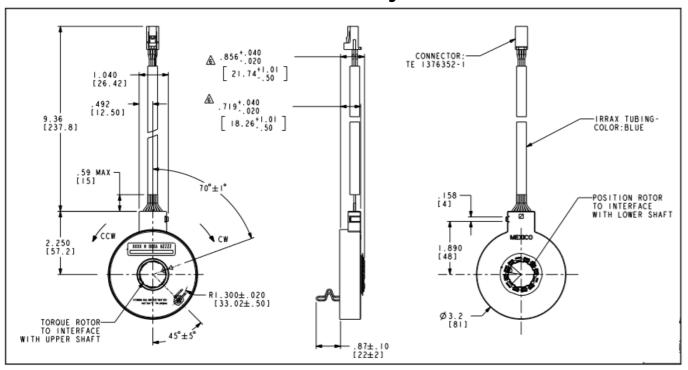
Output Charts







Outline Drawing

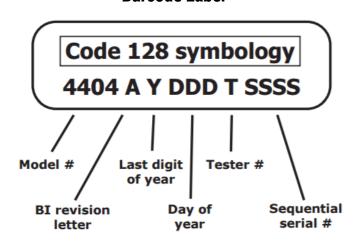


Tolerances ± 0.25 mm unless otherwise specified. See drawing # 122-4404-80 for details.

Pinouts

[PIN	OUTS-8 P	IN C	ONNE	CTOR]
		TE 137	1			
	4	3	2			
	8	7	6		5	
(PIN		ARE II				WIRES
PIN No	٥.	SIGNA	L	W	IRE	COLOR
	١	NOT USED				
2		Р3		YELLOW		
3		P2		WHITE		
4		PΙ		BROWN		
5		Vcc		RED		
6		GND			ВL	ACK
7		ΤΙ		BLUE		
8		T2		PURPLE		

Barcode Label



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | BI Technologies 413 Rood RD, Suite 7 Calexico, CA 92231



Recommended Interface

