LH3 Torque & Multi-turn Position Sensor

SX-4472

Features:

- 5° sensor with torque, multi-turn position output, and flex circuit harness
- 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	438 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	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

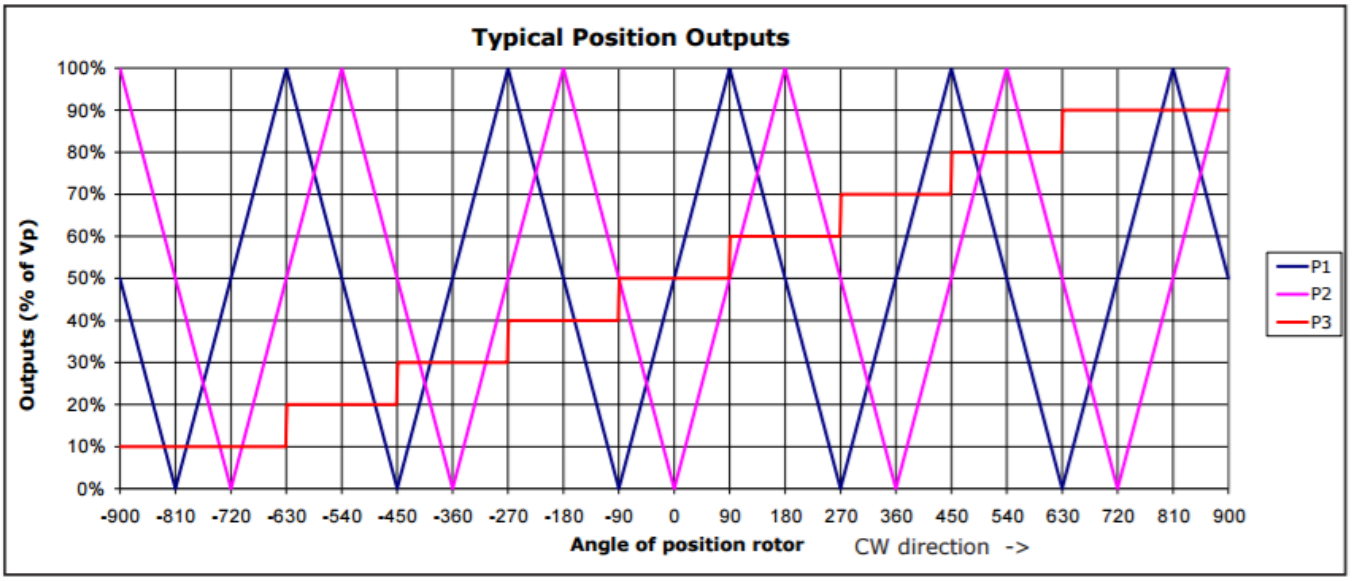
RoHS 2 compliant

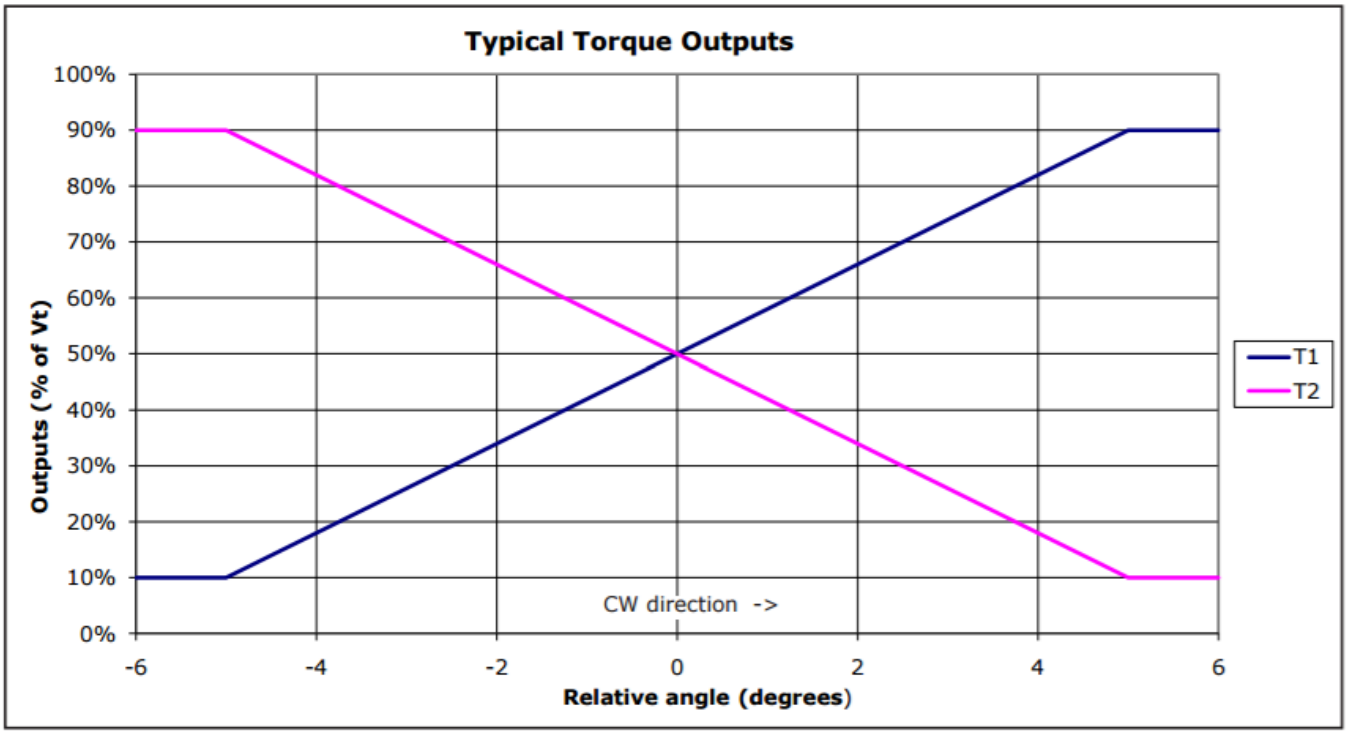
General Note
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Output Charts





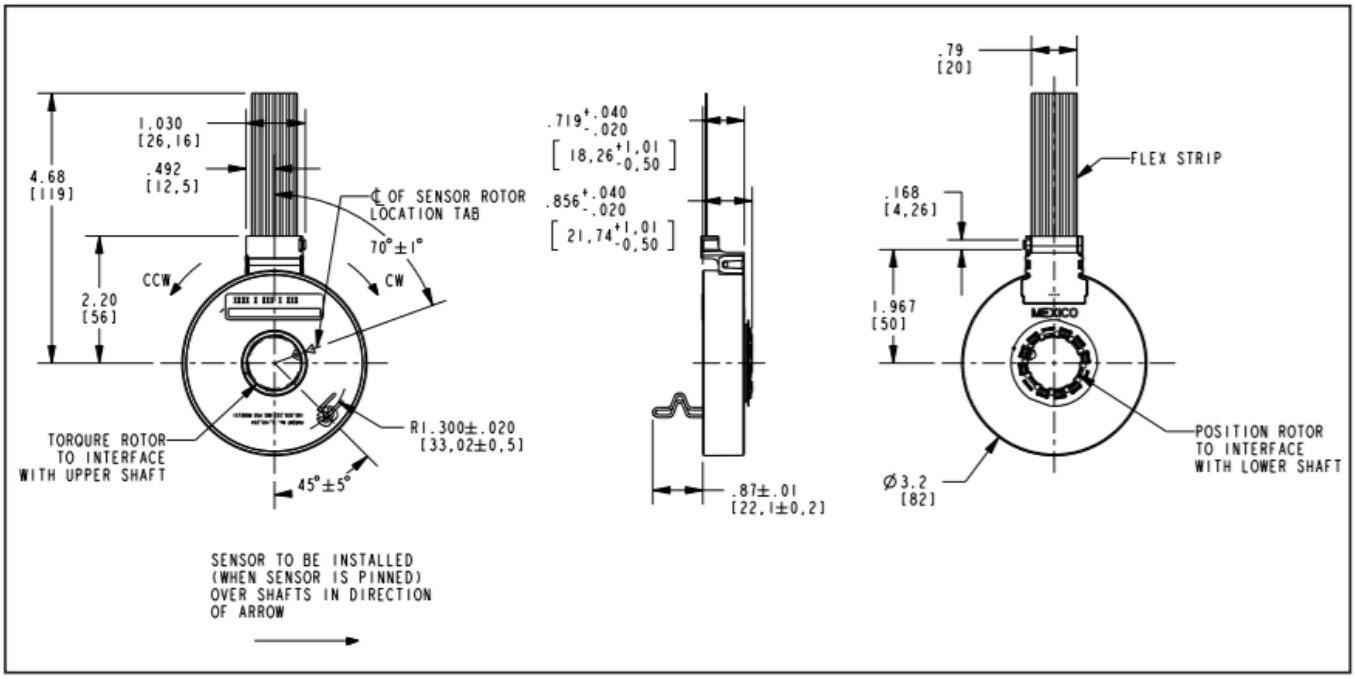
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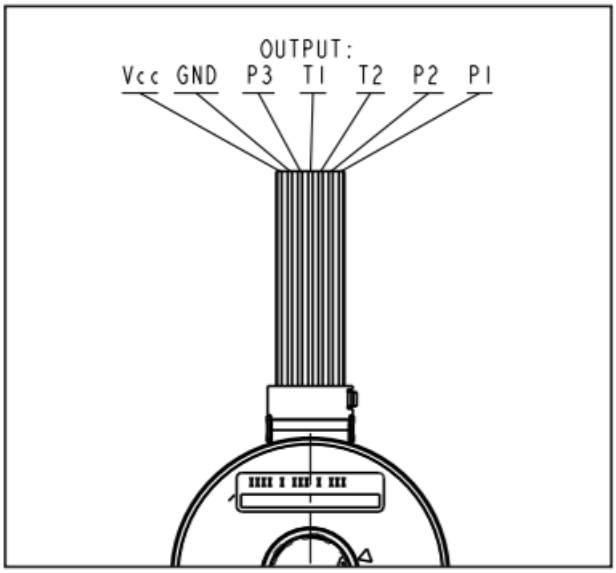
LH3 Torque & Multi-turn Position Sensor

Outline Drawing

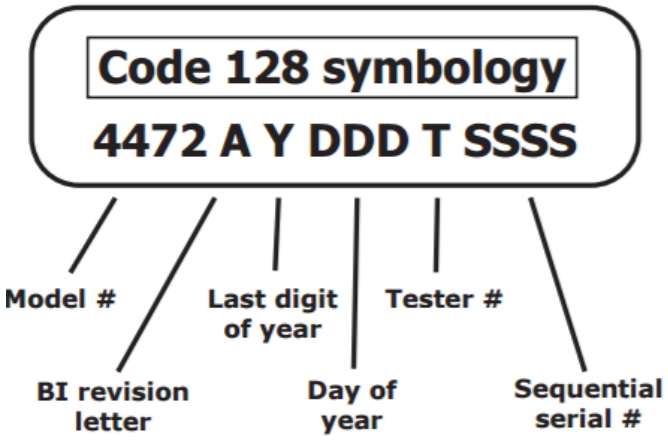


Tolerances ±0.25 mm unless otherwise specified. See drawing # 122-4472-80 for details.

Barcode Label



Barcode Label

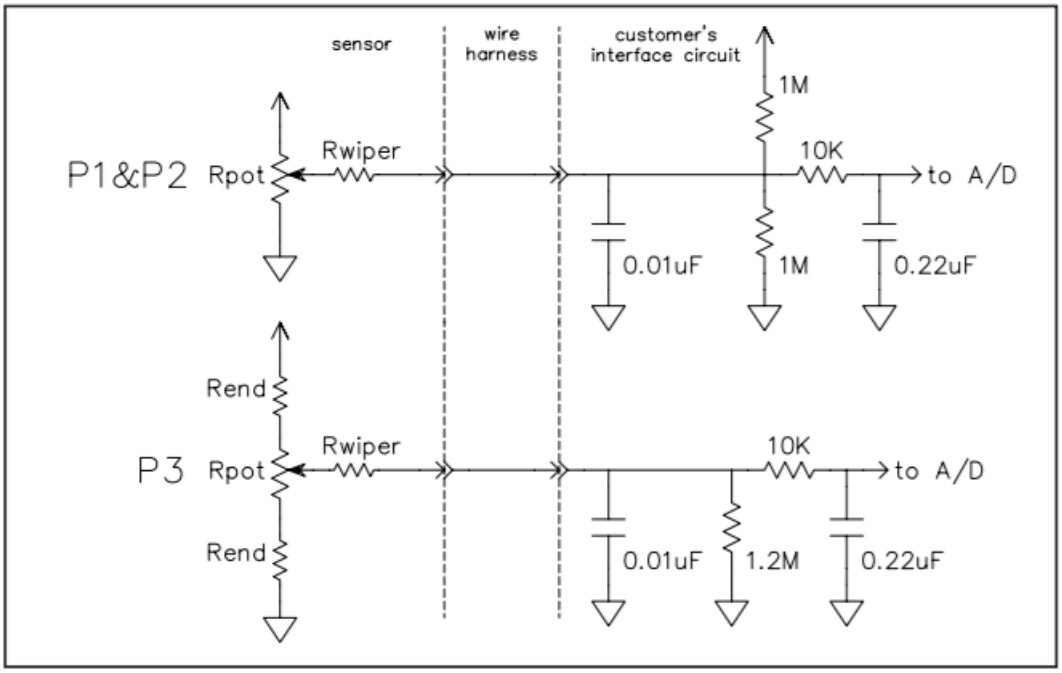


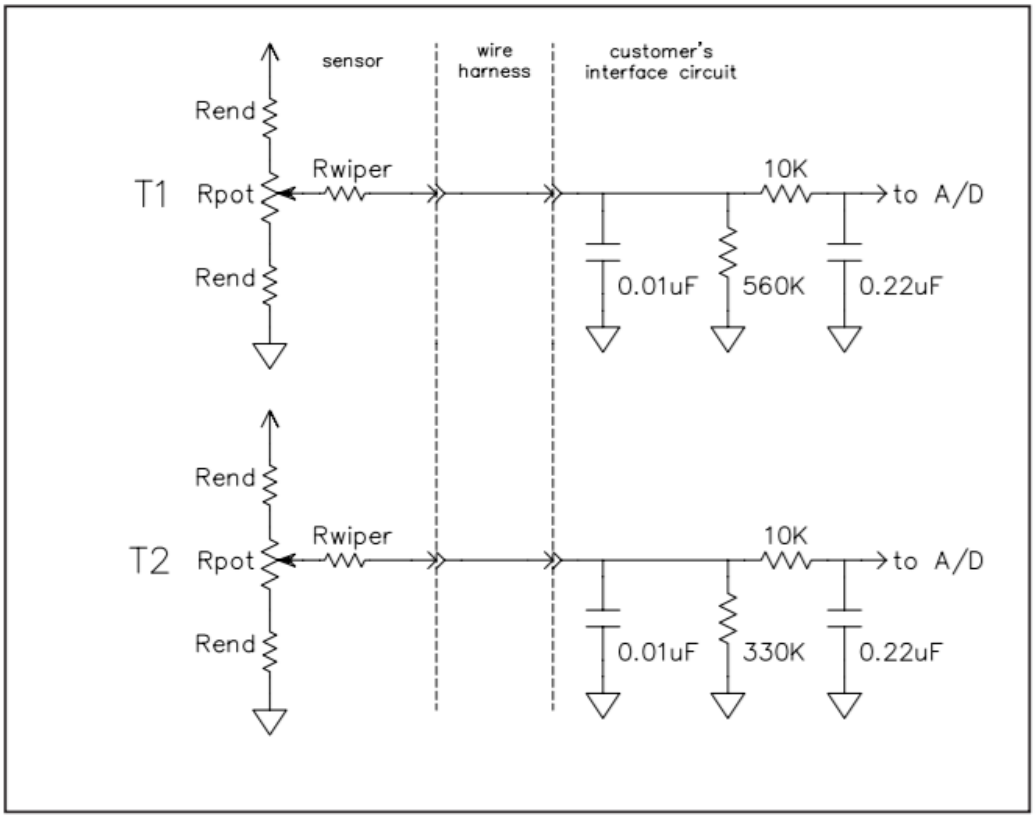
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Recommended Interface





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