LH3 Torque & Position Sensor

SX-4433



Features:

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





Electrical

Electrical	
Torque Signal Linearity	±3%
Torque Hysteresis	0.5%
Torque Signal Microgradient	±30% of theoretical slope over 0.4° interval
Torque Signal Sensing Angle	±8°
Position Signal Linearity	±1.5%
Position Signal Microgradient	±30% of theoretical slope over 2° interval
Total Resistance	518 Ω ±30%

Mechanical

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

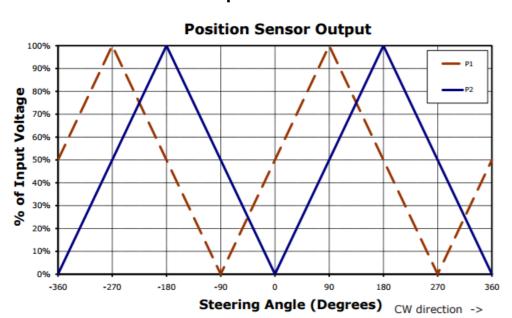
Environmental

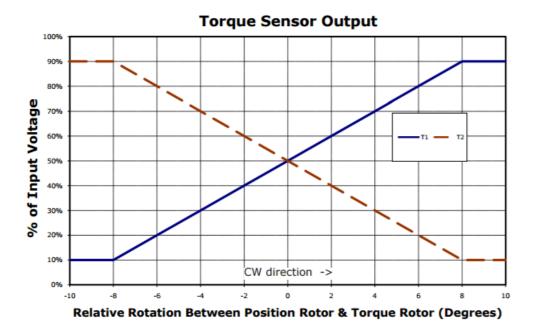
Operating Temperature Range	-40°C to +85°C
Shock	14 ms half-sine at 300 m/s ²
Vibration	10 to 55 Hz with 1 mm P-P constant displacement, 120 hours each of 3 planes
Torque Rotational Life	1 million cycles
Position Rotational Life	1 million cycles
Storage Temperature Range	-40°C to +105°C

SX-4433



Output Charts





www.ttelectronics.com/bi-technologies

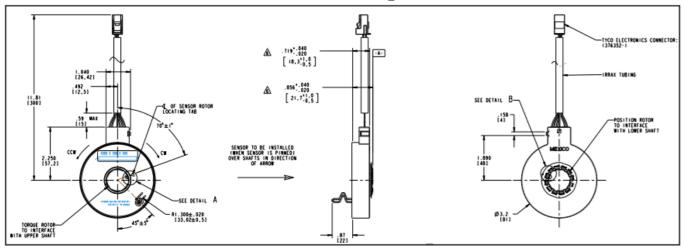
Ph: + 1 (714) 447-2345

LH3 Torque & Position Sensor

SX-4433



Outline Drawing

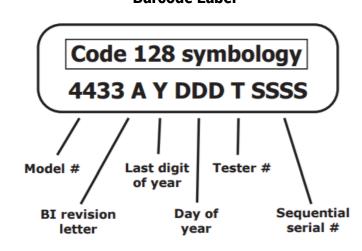


Tolerances ±0.25 mm unless otherwise specified. See drawing # 122-4433-80 for details.

Pinouts



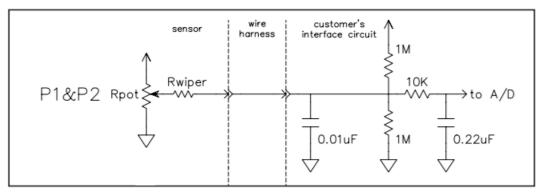
Barcode Label

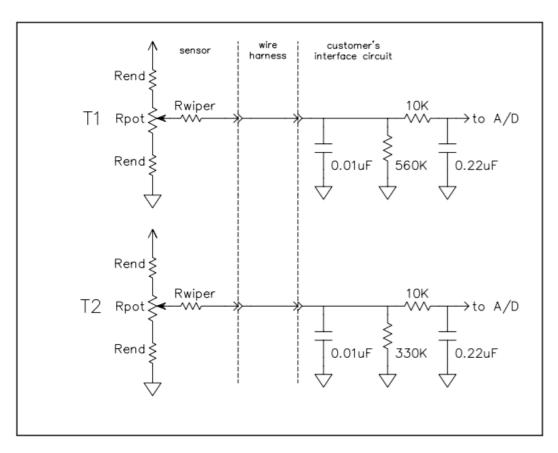


SX-4433



Recommended Interface





Issue D 04/2019 Page 4