

# SX-4471

**LH3 steering sensor with 5° Torque output, single turn Position output, and flex circuit harness.**

**The LH3 torque and position sensor is ideally suited for demanding Electric Power Steering systems.**



## ELECTRICAL<sup>1</sup>

Torque Signal Linearity	±3%
Torque Hysteresis	0.5%
Torque Signal Microgradient	±30% of theoretical slope over 0.4° interval
Torque Signal Sensing Angle	±5°
Position Signal Linearity	±1.5%
Position Signal Microgradient	±30% of theoretical slope over 2° interval
Total Resistance	471 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	grams maximum

## ENVIRONMENTAL

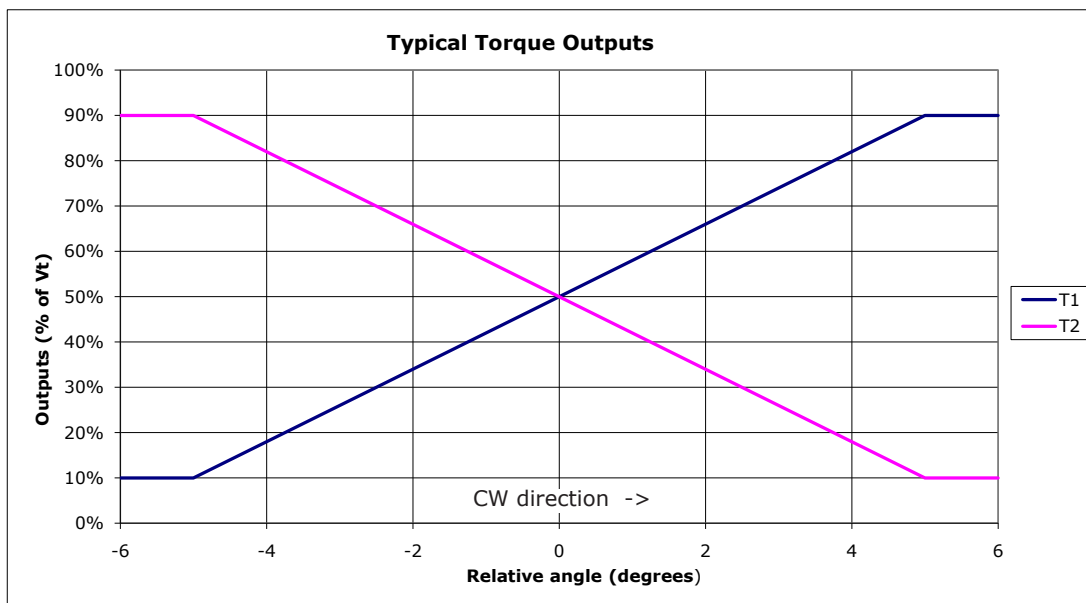
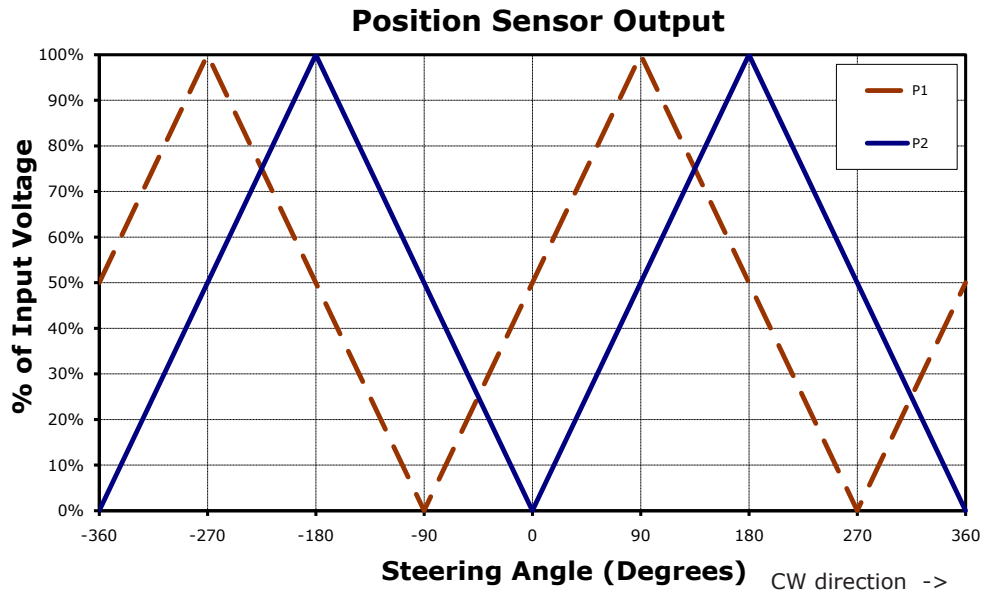
Operating Temperature Range	-40°C to +85°C
Shock	14 ms half-sine at 300 m/s <sup>2</sup>
Vibration	10 to 55 Hz with 1 mm P-P constant displacement, 120 hours each of 3 planes
Torque Rotational Life	1 million cycles
Position Rotational Life	1 million cycles
Storage Temperature Range	-40°C to +105°C

<sup>1</sup> Specifications subject to change without notice.



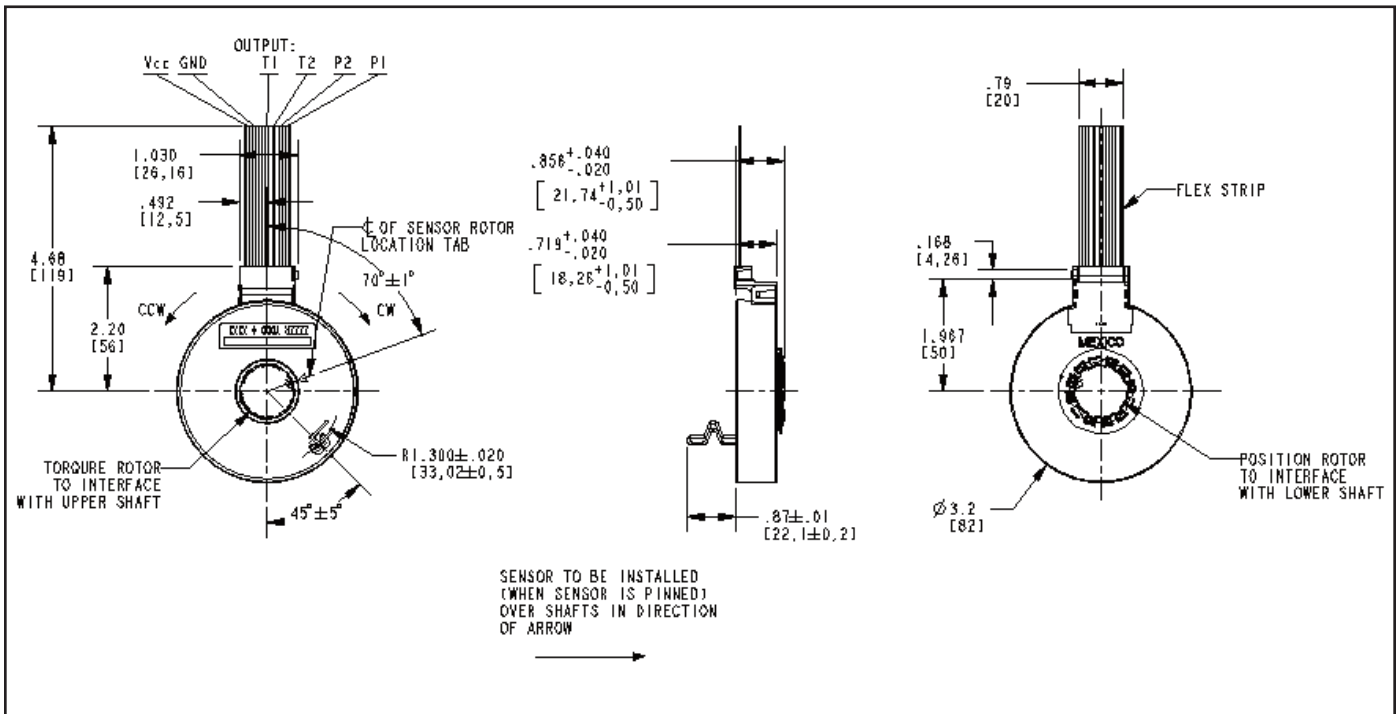
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## OUTPUT CHARTS



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## OUTLINE DRAWING & PINOUTS



Tolerances ±0.25 mm unless otherwise specified. See drawing # 122-4471-80 for details.

## BARCODE LABEL

**Code 128 symbology**

**4471 A Y DDD T SSSS**

Model #

Last digit of year

Tester #

BI revision letter

Day of year

Sequential serial #

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## RECOMMENDED INTERFACE

