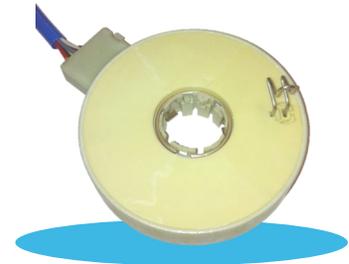# SX-4388

LH3 Steering Torque Sensor

Features:

- Torque ±8° (±5° is available)
- Provides critical high accuracy torque & multi-turn position information
- Redundant outputs for full diagnostics
- Lead-free
- RoHS 2 compliant

Applications:

- Electric power steering systems

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°
Total resistance	833 Ω ±30%

Mechanical

Torque mechanical travel	±11.4°
Turning torque (rotor to rotor)	0.03 NM maximum
Turning torque (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/s²
Vibration	10 to 55 Hz with 1 mm P-P constant displacement, 120 hours each of 3 planes
Torque rotational life	1 million cycles
Storage temperature life	1 million cycles

Output Chart

Torque Sensor Output
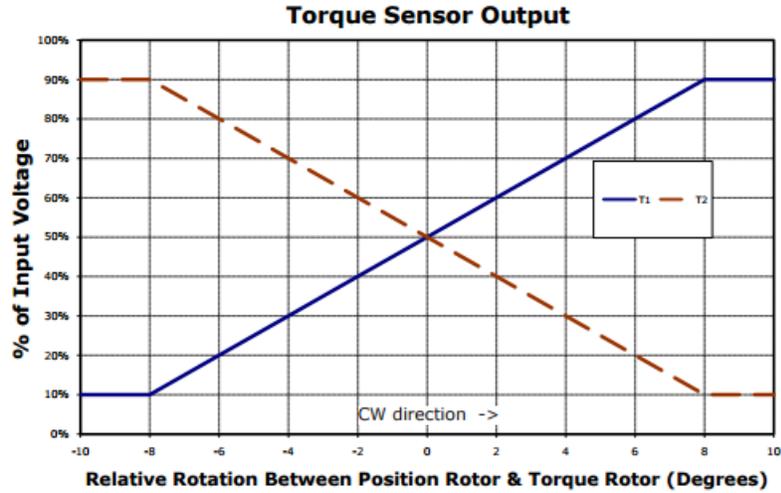
Outline Drawing
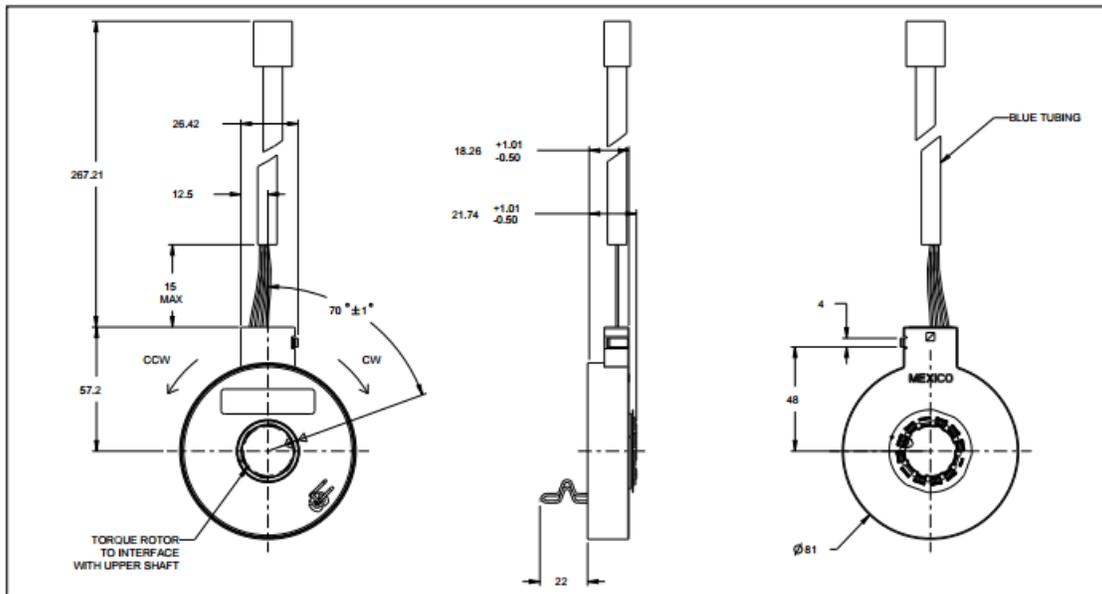
Tolerances ±0.25 mm unless otherwise specified. See drawing # 122-4388-80 for details.

SX-4388

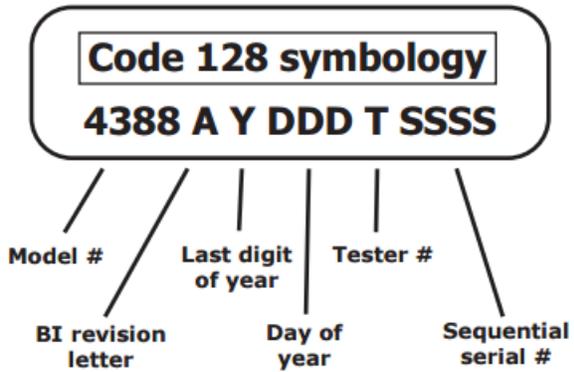## LH3 Steering Torque Sensor

TT Electronics

Pinouts

PIN OUTS-6 PIN CONNECTOR		
PACKARD 15336723		
1	2	3
4	5	6

PIN No.	SIGNAL	WIRE COLOR
1	T1	BLUE
2	Vcc	RED
3	T2	PURPLE
4		NOT USED
5	GND	BLACK
6		NOT USED

Barcode Label

Code 128 symbology

4388 A Y DDD T SSSS

- Model #
- BI revision letter
- Last digit of year
- Day of year
- Tester #
- Sequential serial #

Recommended Interface