## **LH3 Torque & Single Turn Position Sensor**



SX-4485

#### Features:

- 8° sensor with torque and single turn position output
- Ideally suited for demanding electric power steering systems

	Planting
	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	grams maximum

#### **Environmental**

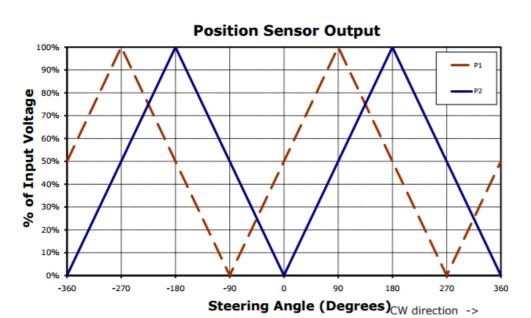
Operating Temperature Range	-40°C to +85°C
Shock	14 ms half-sine at 300 m/s <sup>2</sup>
Vibration	10 to 55 Hz with 1 mm P-P constant displacement, 120 hours each of 3 planes
Torque Rotational Life	1 million cycles
Position Rotational Life	1 million cycles
Storage Temperature Range	-40°C to +105°C

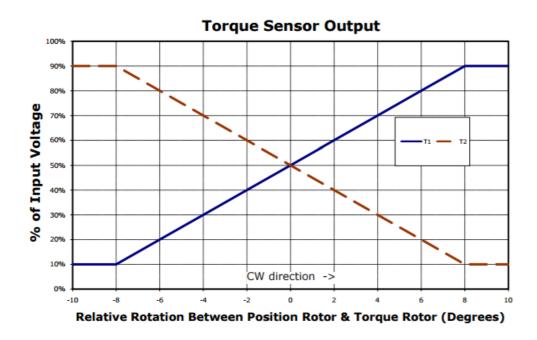


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#### **Output Charts**

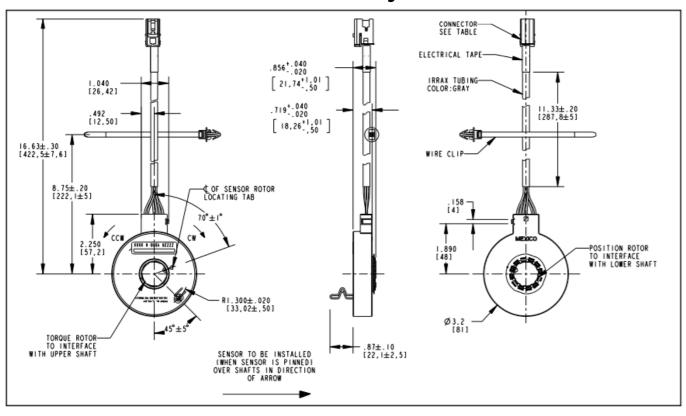




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#### **Outline Drawing**



Tolerances ±0.25 mm unless otherwise specified. See drawing # 122-4485-80 for details.

## PIN OUTS-8 PIN CONNECTOR DELPHI 15406142 1 2 3 4 5 6 7 8 (PIN No'S ARE INDICATED AS WIRES ENTER CONNECTOR END) PIN No. SIGNAL WIRE COLOR I NOT USED --2 PI BROWN 3 Vcc RED 4 T2 PURPLE 5 NOT USED --6 P2 WHITE

BLACK BLUE

**Barcode Label** 

# Code 128 symbology 4485 A Y DDD T SSSS Model # Last digit of year Day of year Sequential serial #

#### General Note

GND

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#### **Recommended Interface**

