LH3 Torque & Single Turn Position Sensor

SX-4491

Features:

- 5° sensor with torque and single turn position output
- Ideally suited for demanding 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	±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

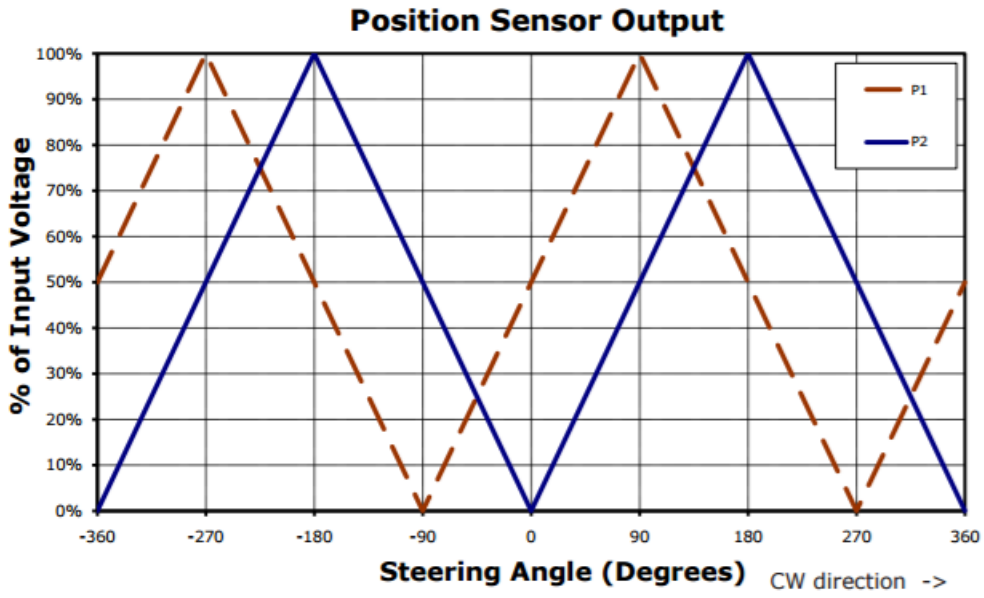
Environmental

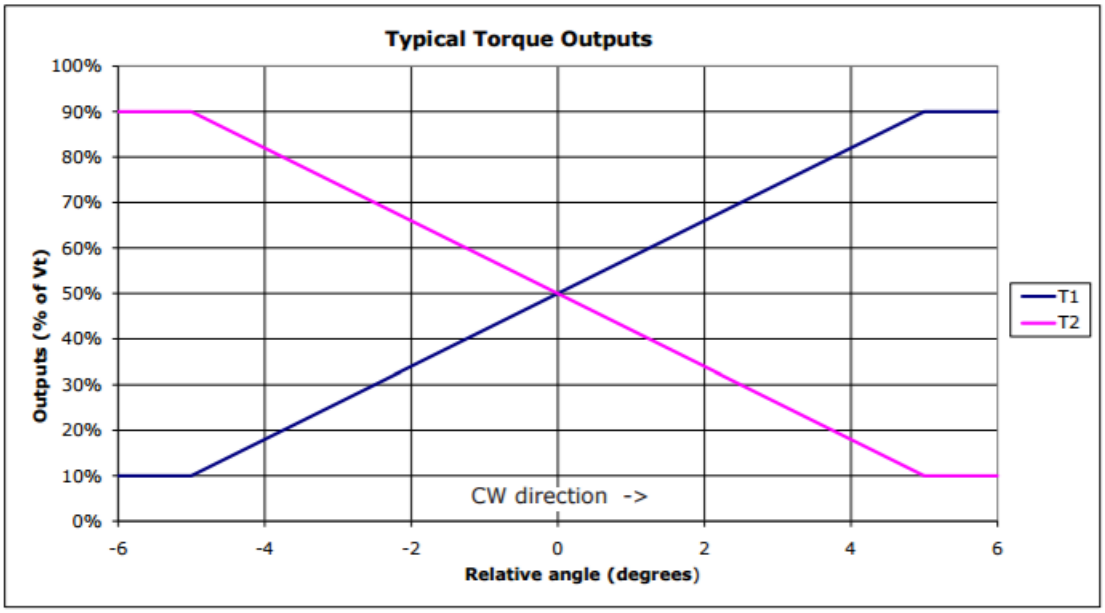
Operating Temperature Range	-40°C to +85°C
Shock	14 ms half-sine at 300 m/s²
Vibration	10 to 55 Hz with 1 mm P-P constant displacement, 120 hours each of 3 planes
Torque Rotational Life	1 million cycles
Position Rotational Life	1 million cycles
Storage Temperature Range	-40°C to +105°C

RoHS 2 compliant

TT Electronics | BI Technologies
4200 Bonita Place, Fullerton, CA 92835-1053, USA |Ph: +1 714 447 2300
www.ttelectronics.com | sensors@ttelectronics.com

Output Charts





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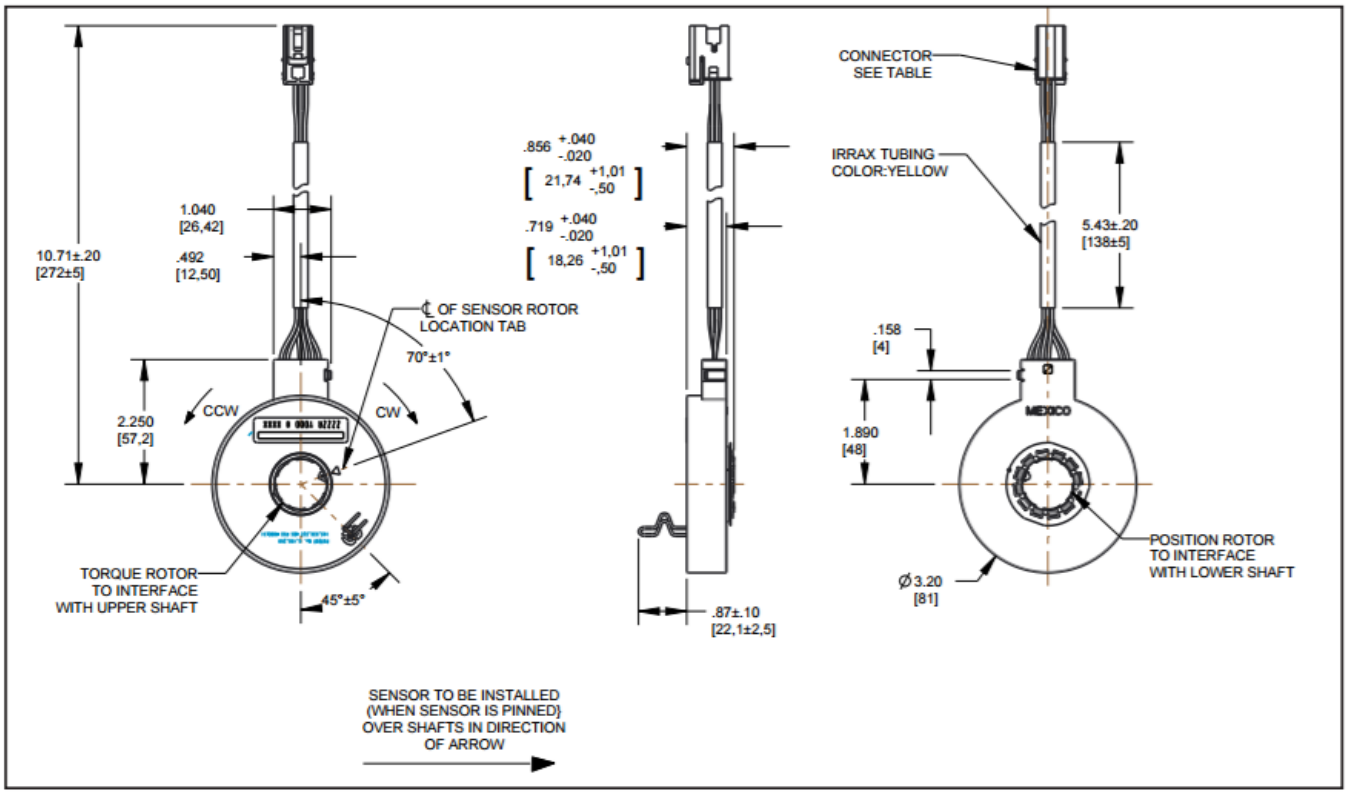
Outline Drawing



Tolerances ±0.25 mm unless otherwise specified. See drawing # 122-4491-80 for details.

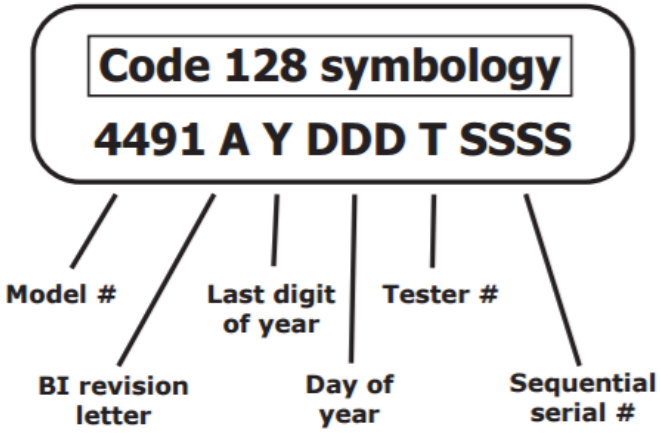
Pinouts

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
1	NOT USED	---
2	P1	BROWN
3	Vcc	RED
4	T2	PURPLE
5	NOT USED	---
6	P2	WHITE
7	GND	BLACK
8	T1	BLUE

Barcode Label



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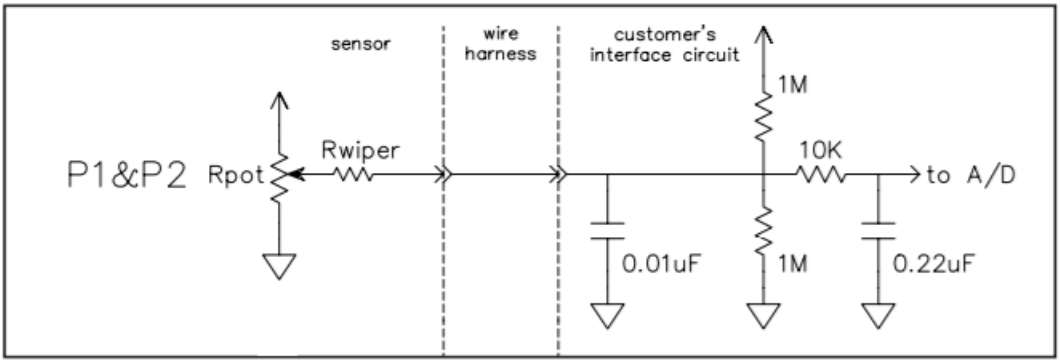
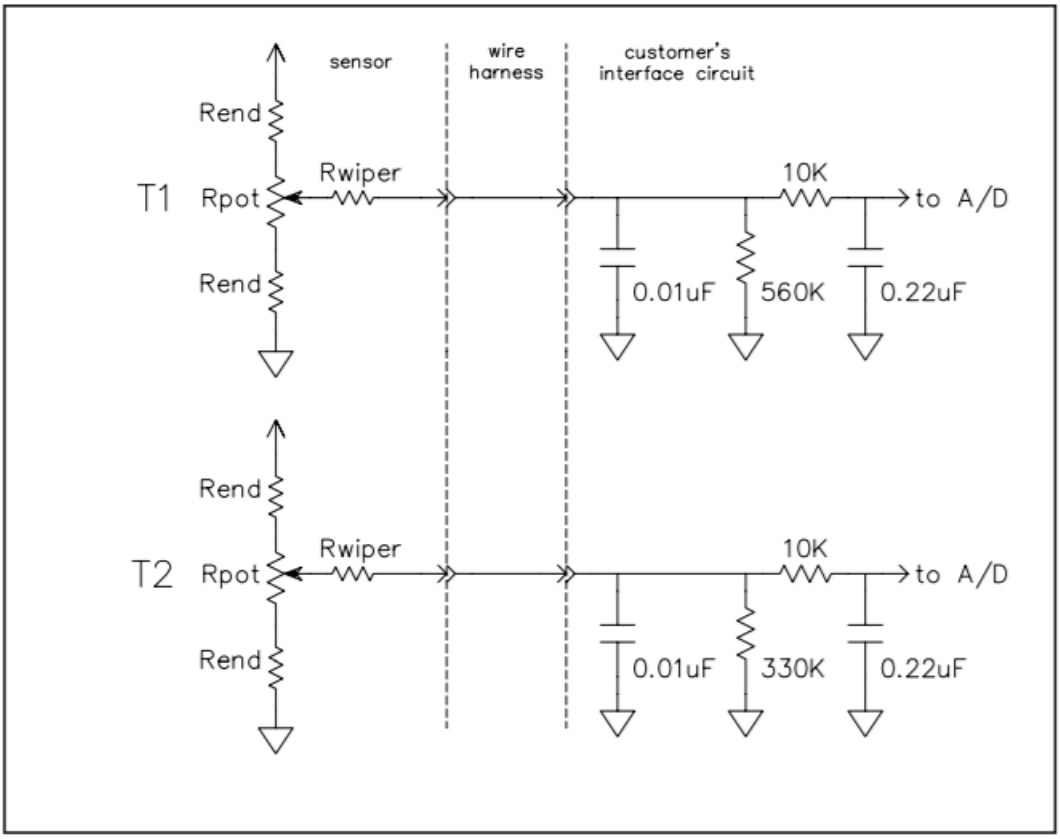
Recommended Interface





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