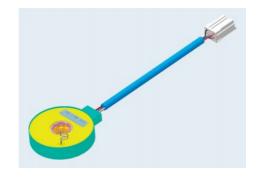
SX-4414



#### **Features:**

- 5° sensor with torque and 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	95 grams maximum

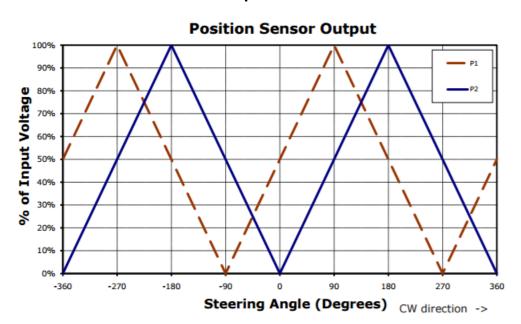
### **Environmental**

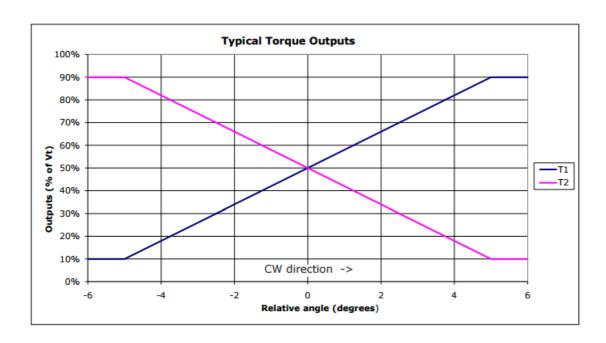
Operating Temperature Range	-40°C to +85°C
Shock	14 ms half-sine at 300 m/s <sup>2</sup>
Vibration	10 to 55 Hz with 1 mm P-P constant displacement, 120 hours each of 3 planes
Torque Rotational Life	1 million cycles
Position Rotational Life	1 million cycles
Storage Temperature Range	-40°C to +105°C

SX-4414



### **Output Charts**

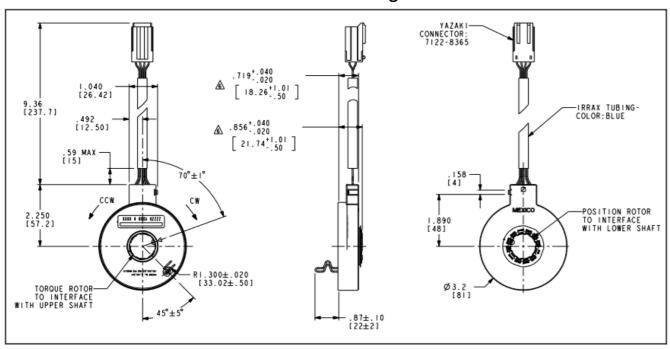




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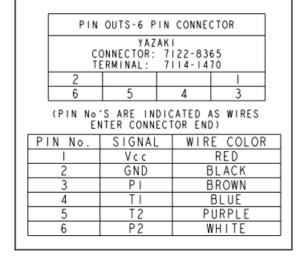


### **Outline Drawing**

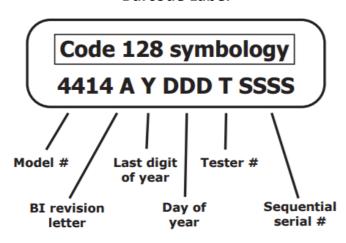


Tolerances ±0.25 mm unless otherwise specified. See drawing # 122-4414-80 for details.

#### **Pinouts**



#### **Barcode Label**



SX-4414



#### **Recommended Interface**

