

Magnetorque Non-Contacting Steering Torque Sensor

SX-4400



Features:

- Ideally suited for demanding electric power steering systems

Pb **RoHS 2**
compliant

Electrical

Supply Voltage	4.5 to 5.5 VDC
Linearity	±3%
Hysteresis	±1.3%
Microgradient	±30% of theoretical slope over 0.4° interval
Sensed Angle	±5°
Supply Current	8 to 16 mA
Clamp Low	8 to 12%
Clamp High	88 to 92%
Sensitivity	0.388 to 0.412 V/°

Mechanical

Mechanical Travel, Input Rotor	Continuous
Mechanical Travel, Output Rotor	Continuous
Turning Torque (rotor to rotor)	0 NM (non-contacting)
Turning Torque (input rotor to housing)	0 NM (non-contacting)
Turning Torque (output rotor to housing)	0.05 NM maximum
Weight	101grams maximum

Environmental

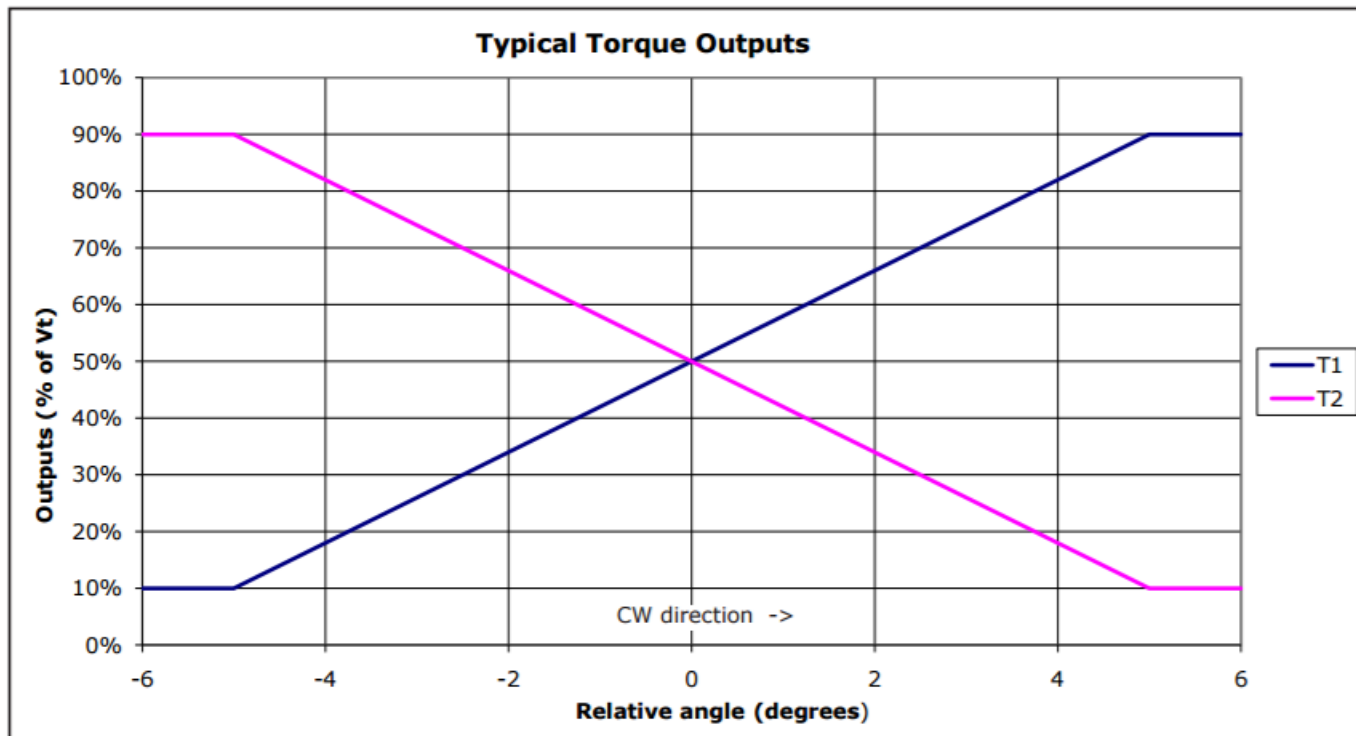
Operating Temperature Range	-40°C to +85°C
Vibration	10 to 55 Hz with 1 mm P-P constant displacement, 120 hours each of 3 planes
Input Rotor Rotational Life	Infinite (floating)
Output Rotor Rotational Life	10 million cycles
Storage Temperature Range	-55°C to +125°C

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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



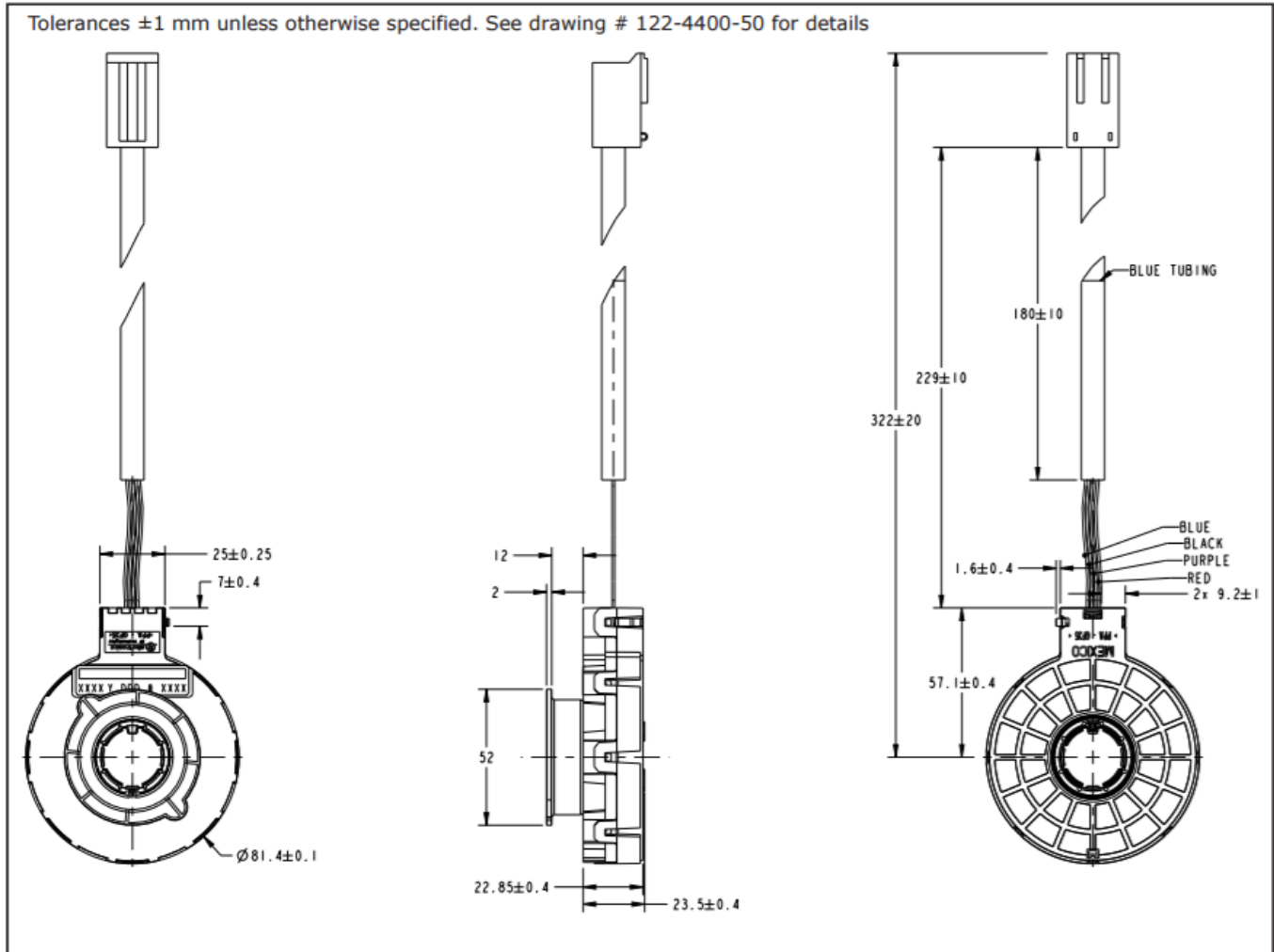
General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

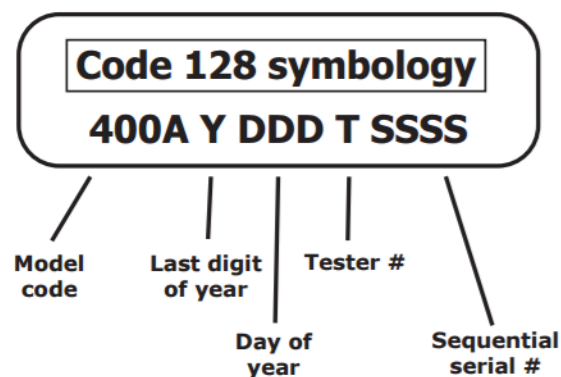
Magnetorque Non-Contacting Steering Torque Sensor



Outline Drawing



Barcode Label



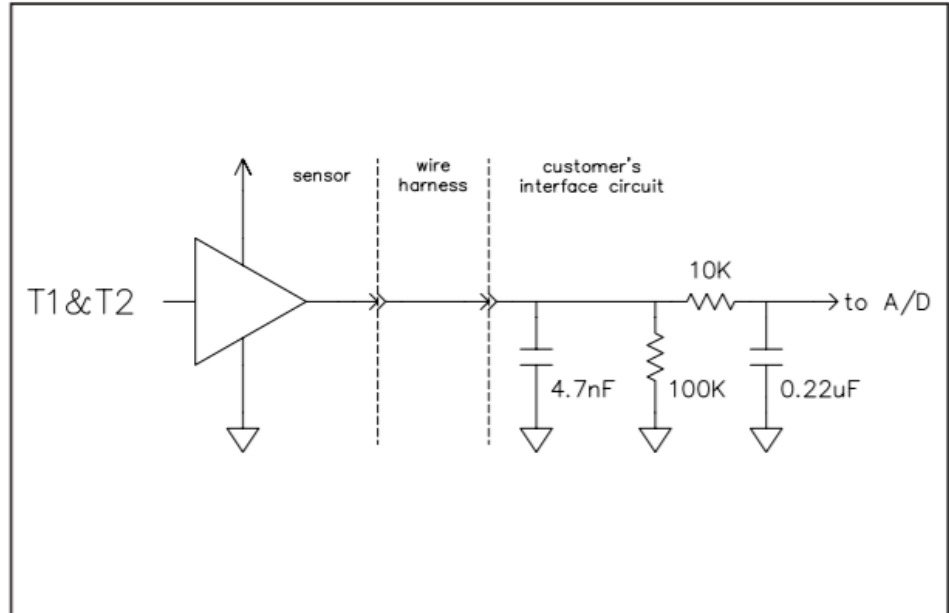
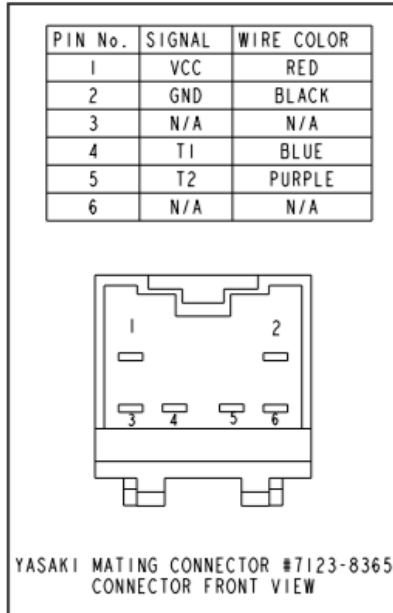
General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

Magnetorque Non-Contacting Steering Torque Sensor



Pinouts & Recommended Interface



General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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