MOBILSENS

9255T Steering System Module
Non-Contacting Magnetic Torque Sensor

General Function

9255T is a non-contacting magnetic torque sensor designed for Electric Power Steering (EPS) system, especially for All-Terrain Vehicles(ATVs) applications.

Magnetic torque sensor is developed with Hall effect characteristic and utilized in vehicles featuring electrical power assisted steering. It provides more reliabilities for enhanced system.

Torsion bar deflects in proportion to the amount of steering effort from the driver. The twist angle between input and output shafts determines output voltage of 9255T.

In order to fulfill overall development environment, dual parallel slope output parameters can be designed and adjusted by following specification with customer requirements.

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Electrical Performance

Supply Voltage..... 4.5V to 5.5V
Supply Current.....10 to 20 mA
Linearity.....±3%
Hysteresis.....±1.5%
Sensitivity.....0.5V/°

Mechanical Performance

Mechanical Angular Travel.....Continuous
Weight.....94g
Torque Angular Range.....±5°

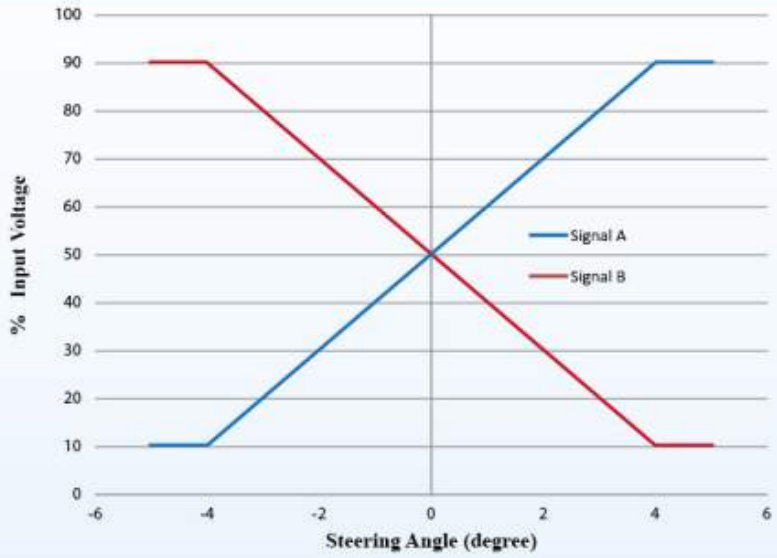
Benefits & Features

Dual Torque Outputs
Non-Contacting Sensor Technology
Electronic Calibration
EMC Component Design
EPS Application For Drive Steering Systems

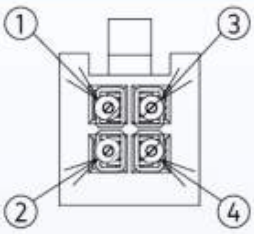
Environmental Specification

Operating temperature range.....-40 to 85°C
Storage temperature range.....-40 to 105°C
Durability Life @25°C.....1 million ± 5°

Analog Output Chart



Pin Interface



Pin No.	Attribute	Color
1	Signal A	Blue
2	Signal B	White
3	VCC	Red
4	GND	Black

Outline Drawing