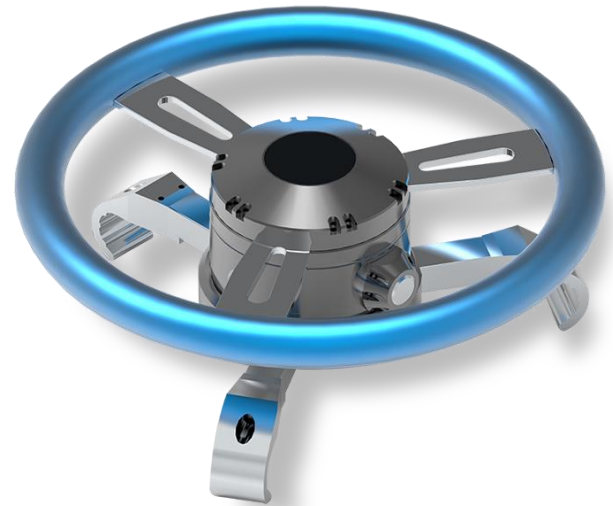


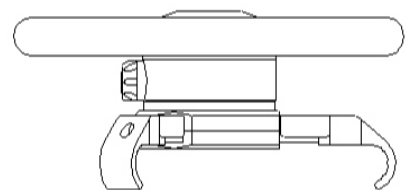
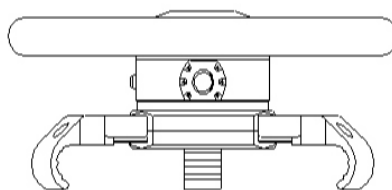
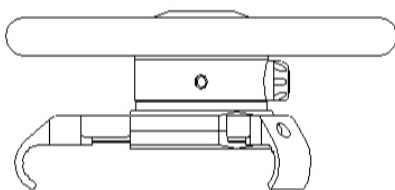
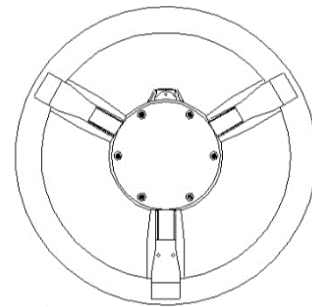
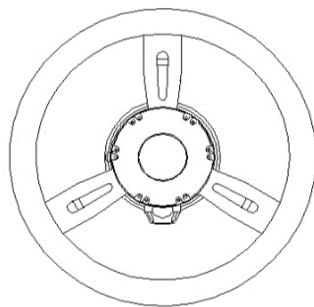
Steering Wheel Torque Sensor



SPECIAL FEATURES

- Real easy connection
- Nominal (rated) torque 200 Nm
- High permissible oscillation stress
- Non mechanical connection for angle signal measuring
- Nominal (rated) angle 0° to 1080°

DIMENSION



SPECIFICATION

Torque Sensor

Rated capacity	200 N·m	Rated output	1.2006mV/V
Input resistance	645.0 Ω	Output resistance	526.1 Ω
Non-linearity	≤ 0.2% R.O.	Hysteresis	≤ 0.2% R.O.
Non-repeatability	≤ 0.2% R.O.	Zero balance	≤ 1.00% R.O.
Creep (in 30min.)	≤ 0.2% R.O.	Compensated temp. range	-10 – 60°C
Temp. effect on R.O	≤ 0.02% LOAD/10°C	Temp. effect on zero bal.	≤ 0.03% R.O./10°C
Insulation resistance	2,000M Ω at 50V DC	Excitation, recommended	10VDC
Excitation, maximum	15VDC	Load type	Torque
Safe overload	150% R.C	Ultimate overload	300% R.C

Angle Sensor

Sensor system	MEMS-based	Gyroscope full-scale range	±2000°/s
Gyroscope bias stability	10 deg/hr	Gyroscope noise stability	0.007 °/s/√Hz
Gyroscope non-linearity	0.1% FS	Accelerometer full-scale range	±16g
Accelerometer bias stability	0.03 mg	Accelerometer noise density	120 µg/√Hz
Accelerometer non-linearity	0.5% FS	Yaw Accuracy (Dynamic)	2° 1σRMS
Rotate range	-1080 – +1080°	Input voltage	5 – 24VDC
Power consumption	Max 800mW		

Mechanical Information

Handle Diameter	370mm (without cover)	Height	150mm
Available connection Diameter	Min. 340mm ... Max. 440mm	Weight	8.0kg
Connector	Lemo 3BTZN21P	Handle material	Stainless Steel SS304
Housing material	Aluminum A6001	Clamp material	Stainless Steel SS304

Single Output

CAN Format	CAN 2.0B (Extended)	CAN Baud-Rate	20K – 1M bps (Default : 250K)
Default CAN ID	0x1230	RS232C Baud-Rate	9,600 – 921,600 bps (Default : 115,200)
Output Frequency	1 – 100Hz (Default : 50)	Analog Output	140mV – 2.6V