

Torque sensors

for rotating and non-rotating applications



Torque sensors for non-rotating applications

	8625	8630	8631
Rel. Non-Linearity ($\leq \pm$ % F.S.)	0.05	0.1	0.1
Different Measuring Ranges smallest: largest:	0 ... 0.01 Nm 0 ... 200 Nm	0 ... 2 Nm 0 ... 200 Nm	0 ... 5 Nm 0 ... 500 Nm
Special Features	High precision, compact design, optional integrated amplifier + USB, various accessories for different mounting possibilities, with burster TEDS available	Compact design, optional integrated amplifier + USB, immune to side loads thanks to built-in support bearings, various accessories for different mounting possibilities	Robust, reliable, precise, easy handling, for static and dynamic applications, with burster TEDS available, optional integrated amplifier + USB
Main Application Fields, Examples of Application	Reference sensor for experimental set-ups in precision engineering, determination of bearing friction torques, measurement of very small adjusting torques on vehicle operating elements	Checking tightening torques, determining frictional torques, measuring opening torques e.g. on screw caps	Static and dynamic measurements of non-rotating torque transmissions such as agitator drives, reaction torques of motors

Torque sensors for rotating applications

	8645/8646	8655/8656	8661
Rel. Non-Linearity ($\leq \pm$ % F.S.)	1.0	0,25	0.05
Different Measuring Ranges smallest: largest:	0 ... 2.5 Nm 0 ... 500 Nm	0 ... 1 Nm 0 ... 200 Nm	0 ... 0.02 Nm 0 ... 1000 Nm
Special Features	Maintenance-free through contactfree signal transmission, integrated amplifier, round or square shaft versions, speed of rotation up to 5000 min ⁻¹ , very economical	Round or square shaft version with keyways, very compact, maintenance-free operation, 0 ... \pm 10 V voltage output, rotations speeds up to 10000 rpm Options: Angle and speed measurement with up to 400 increments, USB output incl. software	Maintenance-free operation, 0 ... \pm 10 V voltage output, operational status indicator, high quality material and bearings, rotational speeds up to 25000 rpm Options: Angle and speed measurement with up to 2000 increments, 2 measuring ranges, shaft end with keyway, USB output incl. software
Main Application Fields, Examples of Application	Automobile technology (steering, gear-boxes, engines), drilling systems, bolting tools, textile machines, test beds, printing technology, pumps, fitness equipment, conveying equipment, household devices	Inspection and adjustment of bolting tools such as screw-drivers, testing screwed joints, drag torque of motors and pumps, friction torques in gearboxes, bearings and seals, testing torsion springs, adjusting equipment in the automobile industry	Measurement of actuating, holding, breakaway or tightening torques, USB interface makes on-side measurements with visualization and archival of measurement values possible, robust and vibration-proof, operation in bio, precision and micro mechanics, at engine test-benches, in medical and test-bench engineering

