
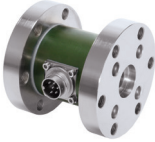

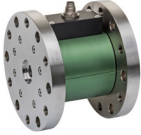
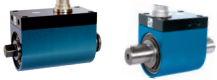






MODELS	8625	8627	8630	8631	86403/86413
Figure					
Rel. Non-Linearity ($\leq \pm \% \text{ F.S.}$)	0.05	0.1	0.2	0.1	0.1
Description	Precision torque sensor non-rotating	Torque sensors non-rotating	Torque sensors non-rotating	Torque sensors non-rotating	Torque sensors rotating
Measuring Ranges smallest: largest:	0 ... 0.01 Nm 0 ... 200 Nm	0 ... 500 Nm 0 ... 5000 Nm	0 ... 2 Nm 0 ... 200 Nm	0 ... 5 Nm 0 ... 200 Nm	0 ... 500 Nm 0 ... 1000 Nm
Special Features	High precision, compact design, optional integrated amplifier + USB, various accessories for different mounting possibilities, with burster TEDS available	Easy handling, for static and dynamic applications	Compact design, insensitive to side loads thanks to built-in support bearing, optional integrated amplifier + USB, various accessories for different mounting possibilities	Robust, reliable, accurate, easy handling, for static and quasi-static measurement, with burster TEDS available, optional integrated amplifier + USB	Rotating, turns clockwise or counter clockwise, for static and dynamic measurements, slip-ring transmission
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	Static and dynamic measurements of non-rotating torque transmissions such as agitator drives, reaction torques of motors	Testing of manual tools, monitoring tightening torques, acquisition of breakage moments e.g. on screw caps	Static and dynamic measurements of non-rotating torque transmissions such as agitator drives, reaction torques of motors	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

MODELS	8645/8646	8655	8656	8661
Figure				
Rel. Non-Linearity ($\leq \pm \% \text{ F.S.}$)	1	0.25	0.2	0.05
Description	Torque sensors rotating	Torque sensors rotating	Torque sensors rotating	Precision torque sensors rotating
Measuring Ranges smallest: largest:	0 ... 2.5 Nm 0 ... 500 Nm	0 ... 1 Nm 0 ... 160 Nm	0 ... 1 Nm 0 ... 100 Nm	0 ... 0.02 Nm 0 ... 1000 Nm
Special Features	Maintenance-free through contact-free signal transmission, integrated amplifier, round version, speed of rotation up to 5000 min ⁻¹ , very economical	Square, very compact, maintenance-free operation, 0 ... ± 10 V voltage output, speed-resistant up to 3000 min ⁻¹ , Options: speed and angle measurement with resolution of up to 400 increments, USB port including software	Round shaft, very compact, maintenance-free operation, 0 ... ± 10 V voltage output, speed-resistant up to 10000 min ⁻¹ , Options: speed and angle measurement with resolution of up to 400 increments, USB port including software	Maintenance-free operation, 0 ... ± 10 V voltage output, operational status indicator, high quality material and bearings, rotational speeds up to 25000 rpm Options: speed and angle measurement with resolution of up to 2000 increments, 2 measuring ranges, shaft end with keyway, USB 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	End-of-line test benches, Machinery and plant engineering, Electric motor test	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

Options	■ Modified mechanical adaptations ■ Higher accuracy ■ Measurement of rotary speed and angle displacement ■ 2 measurement ranges ■ USB
Accessories:	Connectors, connecting cables, sensor mounting racks, assembly blocks, couplings, software
Services:	Connector mounting, manufacturers calibration certificates, DAkkS calibration certificates