
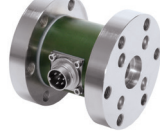









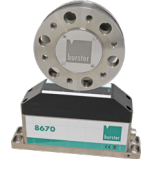


MODELS	8625	8627	8628	8630	8631	8632
Figure						
Rel. Non-Linearity ( $\leq \pm$ % F.S.)	0.05	0.1	0.2	0.2	0.1	0.2
Description	<b>Precision torque sensor non-rotating</b>	<b>Torque sensors non-rotating</b>	<b>Torque sensors non-rotating</b>	<b>Torque sensors non-rotating</b>	<b>Torque sensors non-rotating</b>	<b>Torque sensors non-rotating</b>
Measuring Ranges smallest: largest:	0 ... 0.01 Nm 0 ... 200 Nm	0 ... 500 Nm 0 ... 5000 Nm	0 ... 500 Nm 0 ... 1000 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	Various Models with internal square drive, external square driver or round shaft	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	Compact design, versatile
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 and calibration of assembly tools for screws and nuts, test setups for precision mechanics	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	Checking tightening torques, determining frictional torques, measuring opening torques

MODELS	86403/86413	8645/8646	8655	8656	8661	8670
Figure						
Rel. Non-Linearity ( $\leq \pm$ % F.S.)	0.1	1	0.25	0.2	0.05	0.05
Description	<b>Torque sensors rotating</b>	<b>Torque sensors rotating</b>	<b>Torque sensors rotating</b>	<b>Torque sensors rotating</b>	<b>Precision torque sensors rotating</b>	<b>High precision flange torque sensor rotating</b>
Measuring Ranges smallest: largest:	0 ... 500 Nm 0 ... 1000 Nm	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	0 ... 100 Nm 0 ... 5000 Nm
Special Features	Rotating, turns clockwise or counter clockwise, for static and dynamic measurements, slip-ring transmission	Maintenance-free through contact-free signal transmission, integrated amplifier, round version, speed of rotation up to 5000 min <sup>-1</sup> , very economical	Square, very compact, maintenance-free operation, 0 ... ±10 V voltage output, speed-resistant up to 3000 min <sup>-1</sup> , 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 <sup>-1</sup> , 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	Linearity error $\leq$ 0.05 % F.S., Flange connection with DIN hole pattern, output signal configurable (0 ... ±10 V, frequency output, CAN)
Main Application Fields, Examples of Application	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	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	Test station construction, quality monitoring of electric motors and gearboxes, research & development, machinery and plant engineering

<b>Options</b>	<span style="color: #008080;">■</span> Modified mechanical adaptations <span style="color: #008080;">■</span> Higher accuracy <span style="color: #008080;">■</span> Measurement of rotary speed and angle displacement <span style="color: #008080;">■</span> 2 measurement ranges <span style="color: #008080;">■</span> USB
<b>Accessories:</b>	Connectors, connecting cables, sensor mounting racks, assembly blocks, couplings, software
<b>Services:</b>	Connector mounting, manufacturers calibration certificates, DAkkS calibration certificates