

Torque transducer with fixed shaft SCHATZ®-INSPECT

SCHATZ®
ADVANCED QUALITY



- Measurement range from 1 up to 2000 N·m
- Accuracy class 0,5
- High alternating load endurance
- *Impulse nutrunner proof*
- SCHATZ-AUTOCODE identification

Application

The torque transducer with fixed shaft is particularly suitable for static checking of click wrenches and nutrunners.

It can be fastened to benches or test stands by its mounting flange for workshop or laboratory checks on the torque. It can also be mounted on its own workshop trolley for performing regular random sample measurements independently of the work piece.

With suitable hexagonal adaptors or joint simulators testing can be performed without the need to remove the socket tool from the nutrunner.

Description

The measurement shaft of the torque transducer is fitted with strain gauges and protected by a metal housing.

The transducer is matched mechanically and connected via a female square drive. On the output side the measurement shaft has a mounting flange for permanent mounting.

The connections for power supply and signal transfer are permanently wired so that the torque transducer is shock proof. The 5 metre long connecting cable is permanently connected and provided with a connecting plug for our measurement instruments.

The integrated SCHATZ®AUTOCODE automatically identifies and calibrates the transducer at connection.

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Technical data	5413-1030									
Model No.	/1	/5	/10	/20	/50	/100	/200	/500	/1K	/2K
Capacity N-m/lb-ft	1/ 0.74	5/ 3.69	10/ 7.38	20/ 14.75	50/ 36.88	100/ 73.76	200/ 147.51	500/ 368.78	1000/ 737.56	2000/ 1475.12
Square	1/4"	1/4"	1/4"	1/4"	3/8"	1/2"	1/2"	3/4"	1"	1 1/2"
Weight/kg	0,9	1,7	1,7	1,7	1,9	1,9	1,9	2,5	3,8	5,7
Max. permissible axial force/N	20	100	200	400	1000	1000	2000	2500	2500	2500
Max. permissible bending/N-m	0,07	0,20	0,20	0,40	1,00	2,00	2,50	8,00	16,00	16,00
Accuracy class acc. to DIN 51309	0,5								1	
Accuracy	± 0,25 %								± 0,5 %	
Max. service load	1,2 x measurement range (20% over load)									
Breaking load	1,5 x measurement range (50% over load)									
Bridge resistance	350 Ω									
Calibration resistance	40 kΩ									
Nominal sensitivity	2 mV/V									
Nominal sensor supply voltage range	10 V									
Max. sensor supply voltage	15V									
Rated temperature range	0...70°C									
Service temperature range	-20...80°C									
Storage temperature range	-50...85°C									

The static transducers **1 N·m** , **5 N·m** und **10 N·m** have a **disengaging** over load protection, the **20 N·m** transducer has a **stopping mechanism** for over load protection!

Dimensions/connecting dimensions							
Connecting cable	permanently connected, 5 m long						
Plug	ODU-Mini-Snap Serie B 16-pol. pin						
Dimensions/mm	A	77,5	93	96,5	85	122	165
	B	65,5	73	76	65	102	140
	C	80	100	100	100	120	150
	D	40	49	50	45	57	88
	Tk	70	80	80	80	100	120

