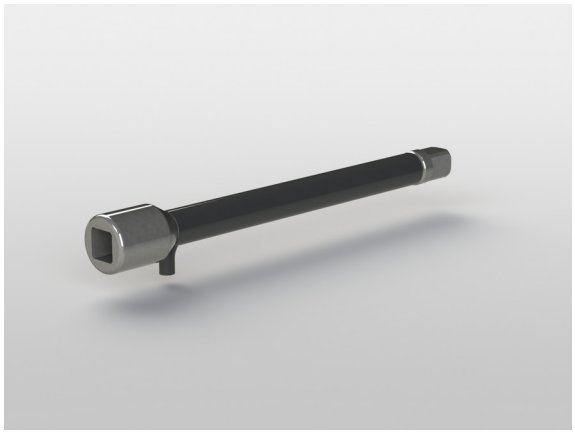
Torque sensor TA125 120Nm

Item number: 4781



The torque sensor TA125 is suitable for measuring the reaction torque up to a nominal torque of 600 Nm (corded, non-rotating).

The torque sensor TA125 is used to monitor torques in quality assurance.

Optional special version

- Protection class IP68: from rated force 200 N
- Temperature range -40°C to 180°C
- Vacuum version from 10^{-5} mbar
- Pressure range up to 8 bar
- Suitable for cleanrooms
- autoclavable

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Stand: 28.08.2026

Technical Drawing

ME-Artikelnr.	Nennmoment	L in mm	D1 in mm	D2 in mm
5291	15 Nm	101,5	8	12
5292	50 Nm	126	12,5	18
5293	120 Nm	123	17	23
5294	350 Nm	200	25	36
5295	600 Nm	200	33	43

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Technical Data

Basic Data		Unit
Type	Vollzylinder	
Rated torque	120	Nm
Maximum operating torque	150	%FS
Breaking torque	400	%FS
Rated torsion angle	0.7	°/FS
Torque introduction	outer square	
Dimension (torque introduction)	1/2"	
sensor fastening	inside square	
Dimension 2	1/2"	
Diameter	23	mm
length	123	mm
Material	tool steel	
Dimensions	101,5 mm x Ø12 mm...200 mm x Ø43 mm	
Variants	15Nm... 600Nm	

Electrical Data		Unit
Input resistance	350	Ohm
Tolerance input resistance	5	±
Output resistance	350	Ohm
Tolerance output resistance	5	±
Insulation resistance	5x10^9	Ohm
Rated range of excitation voltage from	2.5	V
Rated range of excitation voltage to	5	V
Operating range of excitation voltage from	1	V
Operating range of excitation voltage to	10	V
Zero signal	0.05	mV/V
Rated output	2.3	mV/V / FS

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Accuracy Data		Unit
Accuracy class	1	
Relative linearity error	0.1	%FS
Relative zero signal hysteresis	0.1	%FS
Temperature effect on zero signal	0.01	%FS/K
Temperature effect on characteristic value	0.01	%RD/K
Relative creep	0.05	%FS

Environmental Data	Unit

Abbreviation : RD: „Reading“; FS: „Full Scale“;1) The exact nominal sensitivity is indicated in the test report.

Pin Assignment

Channel	Symbol	Description	Wire color	PIN
	+Us	positive bridge supply	brown	
	-Us	negative bridge supply	white	
	+Ud	positive bridge output	green	
	-Ud	negative bridge output	yellow	

Compressive load: positive output signal. Shield: transparent.

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