

TS70a ±5Nm



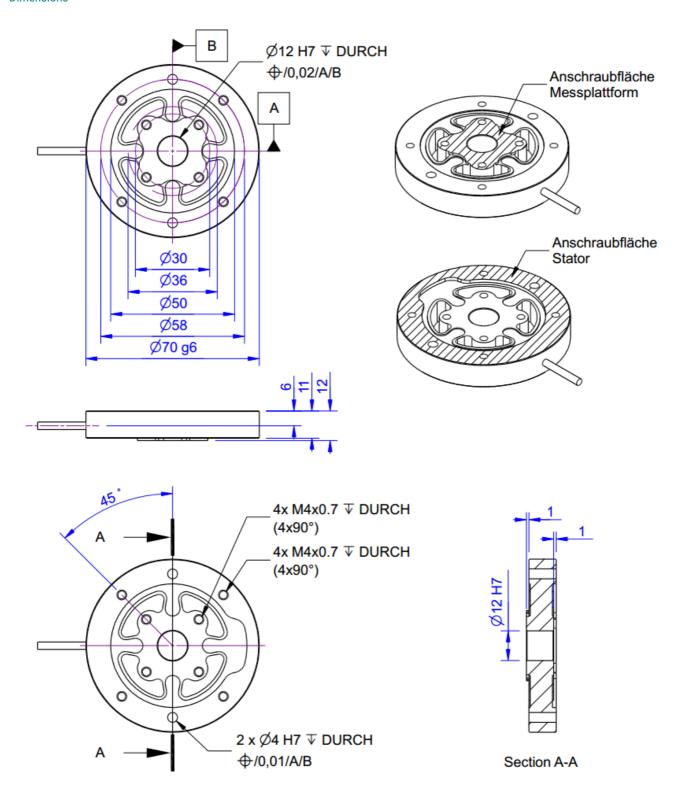
Description

The torque sensor consists of an outer flange and an inner flange which are connected by 4 shear beams. Outer and inner flange have 4 threads M4 each for torque introduction. The sensor is suitable for measurement of reaction moment in drives and teststands.

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Dimensions





Technical Data

Electrical Data

Input resistance	2000	Ohm
Tolerance input resistance	20	Ohm
Output resistance	2000	Ohm
Tolerance output resistance	20	Ohm
Insulation resistance	5	G0hm
Rated range of excitation voltage f	2.5 5	V
Operating range of excitation voltage f	1 10	V
Zero signal	0.05	mV/V
Rated output	0.5	mV/V / FS
characteristic value range min	0.5	mV/V / FS
characteristic value range max	0.7	mV/V / FS

Precision

Accuracy class	0.1	
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

Connection Data

Connection type	4 conductor open
Name of the connection	STC-31V-4
Cable length	2 m

Temperature

Rated temperature range f	-10 60 °C
Operating temperature range f	-10 85 °C
Storage temperature range f	-10 85 °C
Environmental protection	IP65

Basis Data

Туре	shear beam	
Rated torque	5	Nm
Bending moment limit	5	Nm
Maximum operating torque	150	%FS
Breaking torque	400	%FS
Rated torsion angle	0.02	°/FS
Axial force limit	200	N
Lateral force limit	200	N
Torque introduction	pitch circle	
Dimension 1	Ø30	
drehmomentausleitung	pitch circle	

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Dimension 2	Ø58	
Diameter	70	mm
length	10	mm
Material	Aluminium alloy	

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Abbreviation : RD: "Reading"; FS: "Full Scale";

¹⁾ The exact nominal sensitivity is indicated in the test report.





Pin Configuration

Symbol	Description	Wire colour
+Us	positive bridge supply	red
-Us	negative bridge supply	black
+Ud	positive bridge output	green
-Ud	negative bridge output	white

Pressure load: positive output signal. Shield-transparent.

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accessories

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 $Factory\ calibration\ certificate\ Nm/50/5\quad Detection\ of\ the\ characteristic\ value\ and\ traceability\ on\ DAkkS\ torque\ device;\ 0.025Nm...\ 50Nm$



Factory calibration certificate Nm/50/5/System

Detection of the characteristic value and traceability on DAkkS torque device; 0.025Nm... 50Nm; incl. calibration, torque sensor + amplifier