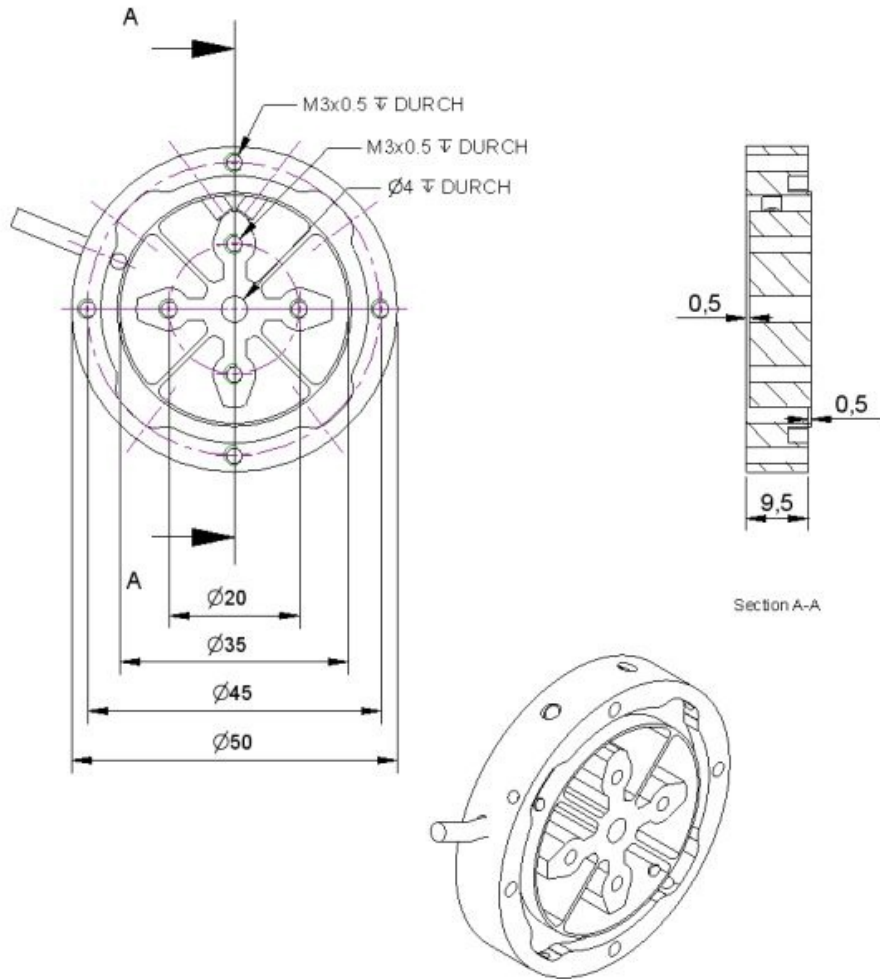


TD50 $\pm 150\text{mNm}$, $\pm 300\text{mNm}$, $\pm 500\text{mNm}$



Description

Dimensions





Technical Data

Basis Data

Type	bending spring	
Maximum operating torque	150	%FS
Breaking torque	400	%FS
Rated torsion angle	0.7	°/FS
Axial force limit	50	N
Torque introduction	pitch circle	
Dimension 1	Ø20	
drehmomentausleitung	pitch circle	
Dimension 2	Ø45	
Diameter	50	mm
laenge	10	mm
Material	Aluminium alloy	

Elektrische Daten

Input resistance	350	Ohm
Tolerance input resistance	20	±
Output resistance	350	Ohm
Insulation resistance	2x10 ⁹	Ohm
Rated range of excitation voltage f	2.5 ... 5	V
Operating range of excitation voltage f	1 ... 5	V
Zero signal	0.1	mV/V
characteristic value range min	0.5	mV/V / FS
characteristic value range max	1.1	mV/V / FS
relative error of characteristic value	12	mV/V / FS

Precision

Accuracy class	0,2%	
Relative linearity error	0.1	%FS
Relative zero signal hysteresis	0.1	%FS
Temperature effect on zero signal	0.1	%FS/K
Temperature effect on characteristic value	0.1	%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	-20 ... 60 °C
Operating temperature range f	-20 ... 70 °C
Storage temperature range f	-20 ... 70 °C



Pin Configuration

Channel	Symbol	Description	Wire colour	PIN
	+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



accessories

Description	Description
Factory calibration certificate Nm/50/5	Detection of the characteristic value and the traceability to DKD torque device
Factory calibration certificate Nm/50/5/System	Proof of the characteristic value and the traceability on DAkkS torque device, including system calibration