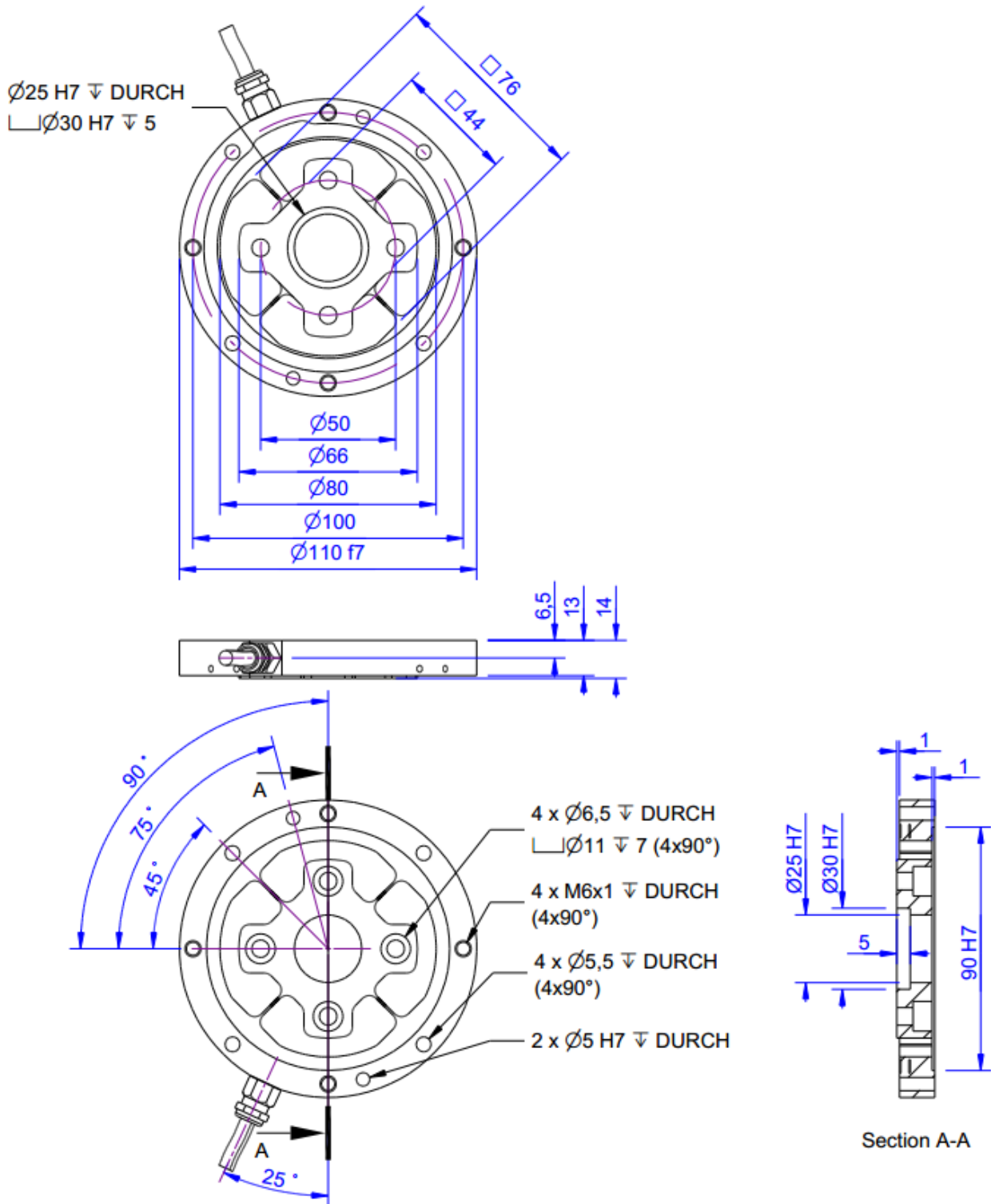


TD110a $\pm 5\text{Nm}$, $\pm 10\text{Nm}$, $\pm 20\text{Nm}$, $\pm 50\text{Nm}$



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	500	N
Torque introduction	pitch circle	
Dimension 1	Ø50	
drehmomentausleitung	pitch circle	
Dimension 2	Ø100	
Diameter	110	mm
laenge	13	mm
Material	Stainless steel	

Elektrische Daten

Input resistance	700	Ohm
Tolerance input resistance	10	±
Output resistance	700	Ohm
Tolerance output resistance	10	±
Insulation resistance	5x10 ⁹	Ohm
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	1	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
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Name of the connection	Unitronic FD CP Plus / 4x0,14
Cable length	3 m

Temperature

Rated temperature range f	-10 ... 60 °C
Operating temperature range f	-10 ... 85 °C
Storage temperature range f	-10 ... 85 °C

Abbreviation : RD: „Reading“; FS: „Full Scale“;

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



Pin Configuration

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

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