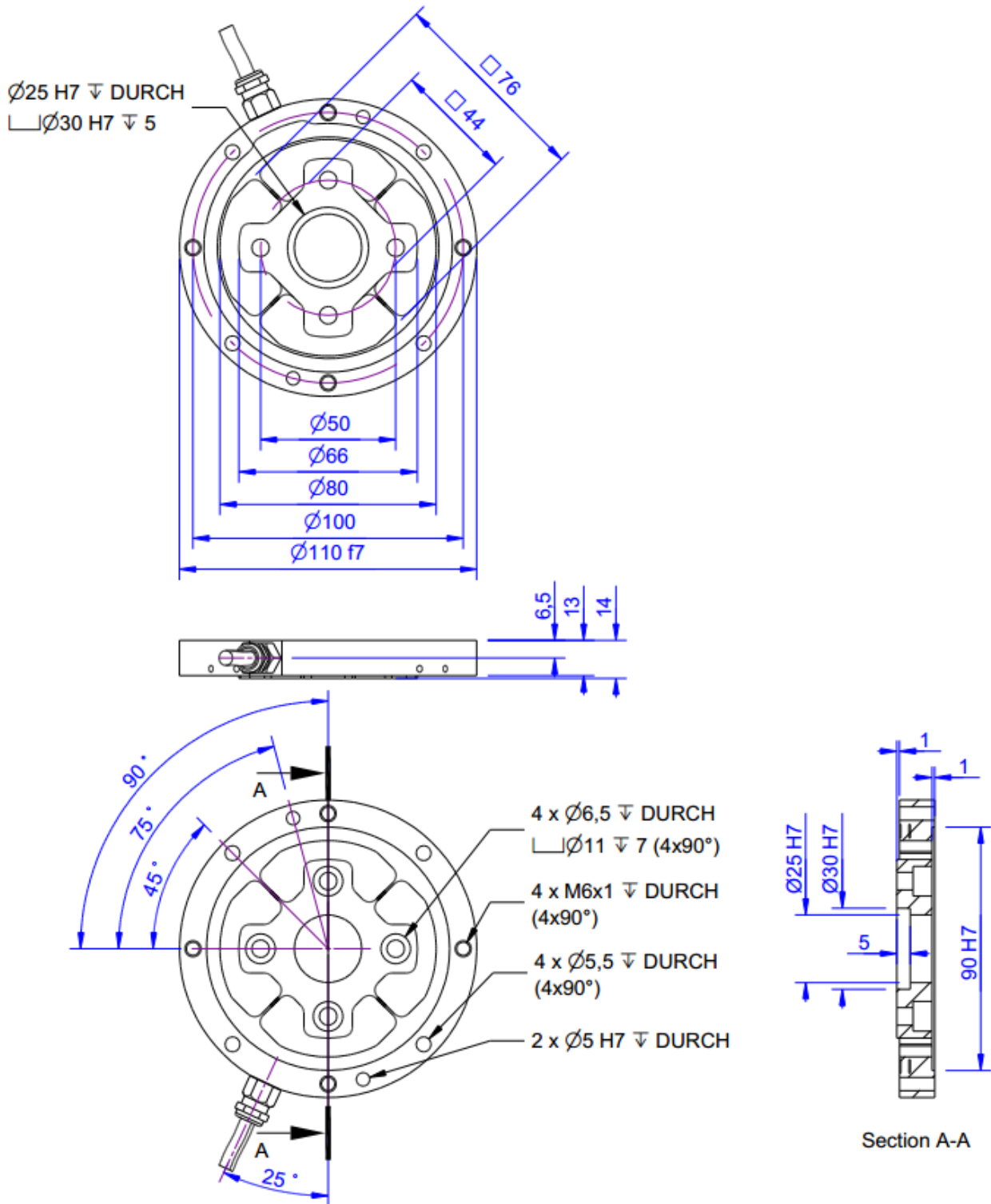


TD110a $\pm 5\text{Nm}$, $\pm 10\text{Nm}$, $\pm 20\text{Nm}$, $\pm 50\text{Nm}$



Description

Dimensions





Technical Data

Basis Data

| | | |
|--------------------------|-----------------|------|
| Type | bending spring | |
| Bending moment limit | 20 | Nm |
| Maximum operating torque | 150 | %FS |
| Breaking torque | 400 | %FS |
| Rated torsion angle | 0.7 | °/FS |
| Axial force limit | 500 | N |
| Lateral 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 | Ohm |
| Output resistance | 700 | Ohm |
| Tolerance output resistance | 10 | Ohm |
| Insulation resistance | 5 | GOhm |
| 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 |
| 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

| Symbol | Description | Wire colour |
|--------|------------------------|-------------|
| +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.

Shield- transparent.



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 |