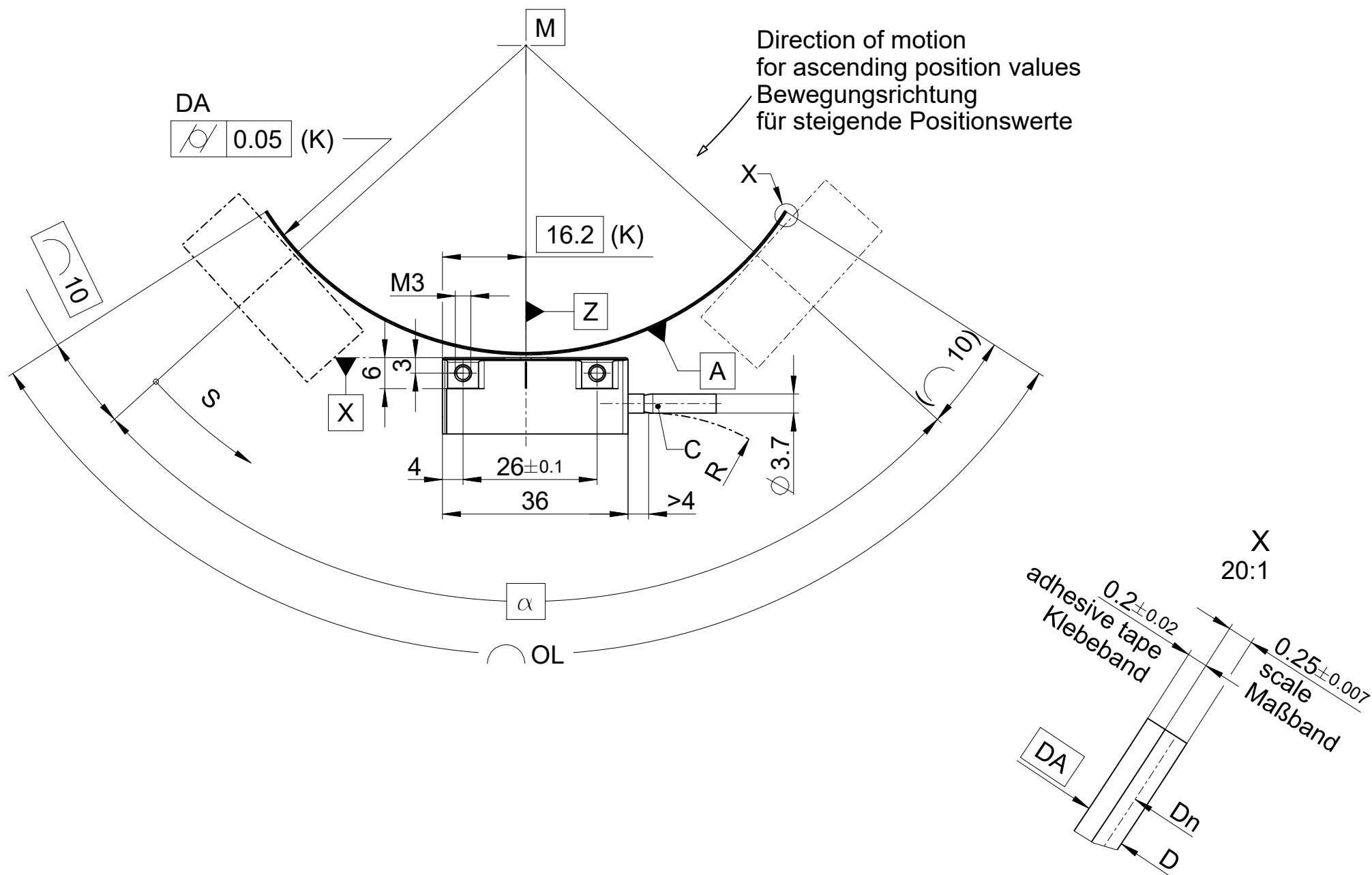
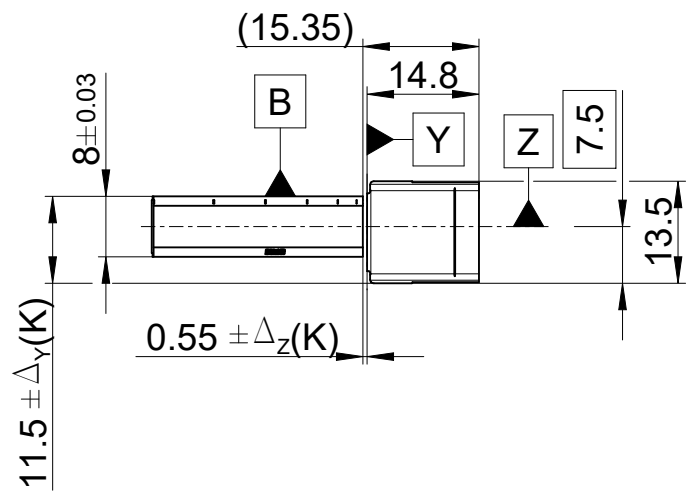
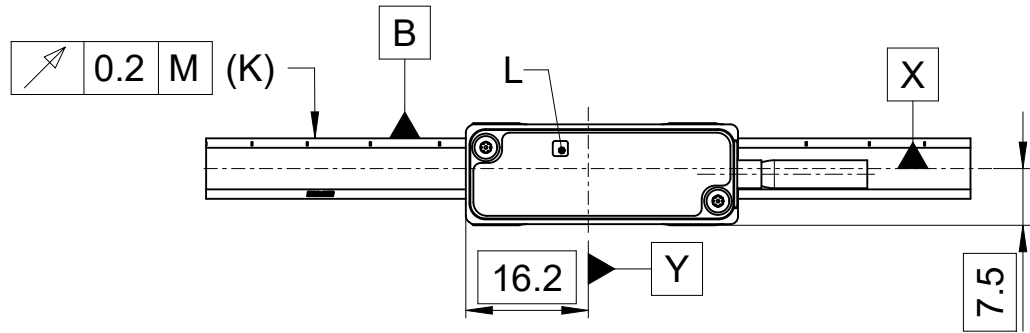




M = rotary axis / Rotationsachse
OL = length of tape / Bandlänge
 $\alpha [^\circ]$ = measuring range / Messbereich
DA = mating diameter / Aufnahmedurchmesser
D = scanning diameter / Abtastdurchmesser
Dn = neutral axis / neutrale Faser
S = code start value not defined / Codestartwert nicht definiert
C = cable / Anschlusskabel
K = customer mounting dimensions / kundenseitige Anschlussmaße
R = bending radius / Biegeradius: stat. $R \geq 8\text{mm}$, dyn. $R \geq 40\text{mm}$
L = LED function display / LED Funktionsanzeige

Permissible position deviation scanning head - scale tape

A	B
---	---

Zulässige Lageabweichungen Abtastkopf - Maßband

A	B
---	---

$\varphi_z = \pm 20\text{mrad}$ or / oder $\pm 1.15^\circ$ (yaw angle / Gierwinkel)
 $\varphi_y = \pm 5\text{mrad}$ or / oder $\pm 0.29^\circ$ (pitch angle / Nickwinkel)
 $\varphi_x = \pm 7\text{mrad}$ or / oder $\pm 0.40^\circ$ (roll angle / Rollwinkel)
 Δ_z = (GAP tolerance / Abstandstoleranz)
= $\pm 0,1 \dots D \leq 110$
= $\pm 0,2 \dots D > 110$
 $\Delta_y = \pm 1,0$ (displacement / Verschiebung)

Graduation carrier / Teilungsträger:
Steel tape scale with adhesive tape / Stahlmaßband mit Klebeband (SK)
D = DA+0,9
Steel tape scale / Stahlmaßband (SO)
D = DA+0,5

Scale / Maßband:
arbitrary position of absolute coding / zero position set by costumer
beliebiger Positionswert der Codierung / Nullpunkt wird vom Kunden gesetzt

Accuracy of the grating / Genauigkeit der Teilung: $\pm 15\mu\text{m/m}$
(based on neutral axis / bezogen auf neutrale Faser)

Calculation OL / Berechnung OL
 $OL = 20 + (D-0,25) * \pi * \alpha / 360^\circ$
(round up result to integer / Ergebnis auf ganze Zahl aufrunden)

Angle calculation strongly dependent on the accurate knowledge of diameter
Winkelberechnung direkt abhängig vom exaktem Durchmesser

					ID number:					
					Change No. C157360-42					
					Phase: Serie					
	Original drawing		MCS15 SK/SO MCS15 SK/SO Anschlussmaße / Mating Dimensions							
	Scale	Format								
Dimensions in mm	1:1	A2	Tolerances as per ISO 8015 General Tolerances ISO 2768:1989-mH ≤ 6±0.2							
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