



- M = machine guideway / Maschinenführung
- ML = measuring length / Messlänge
- OL = overall length / Gesamtlänge
- ↔ = 0...ML
- + = direction of motion of the scanning unit for ascending position values  
Bewegungsrichtung des Abtastkopfes für steigende Positionswerte
- RI = reference mark(s) / Referenzmarke(n)
- k = any position of selected reference mark starting from the beginning of the ML  
beliebige Position der ausgewählten Referenzmarke vom Beginn der ML
- j = additional reference marks spaced n x 100  
zusätzliche Referenzmarken im Abstand von n x 100
- C = cable / Anschlusskabel
- K = required mating dimensions / kundenseitige Anschlussmaße
- L = LED function control / LED Funktionskontrolle
- R = bending radius / Biegeradius  
stat. R ≥ 8mm, dyn. R ≥ 48mm
- n = 1,2,3,...

- Permissible position deviation scanning head - steel tape scale **A B**  
 Zulässige Lageabweichungen Abtastkopf - Stahlmaßband **A B**
- Δ<sub>z</sub> = ±0.3 (gap / Abstand)
  - Δ<sub>y</sub> = ±0.5 (lateral / Verschiebung)
  - φ<sub>z</sub> = ±8.00mrad or / oder ± 0.46° (yaw angle / Gierwinkel)
  - φ<sub>y</sub> = ±8.00mrad or / oder ± 0.46° (pitch angle / Nickwinkel)
  - φ<sub>x</sub> = ±12.00mrad or / oder ± 0.69° (roll angle / Rollwinkel)

Original drawing		MS45 MK/MO		ID number:	C157360-14
Scale		MS45 MK/MO		Change No.	Phase
Format		Anschlussmaße / Mating Dimensions		Tolerances as per ISO 8015	
Dimensions in mm		1:1 A2		General Tolerances ISO 2768:1989-mH ≤ 6±0.2	
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