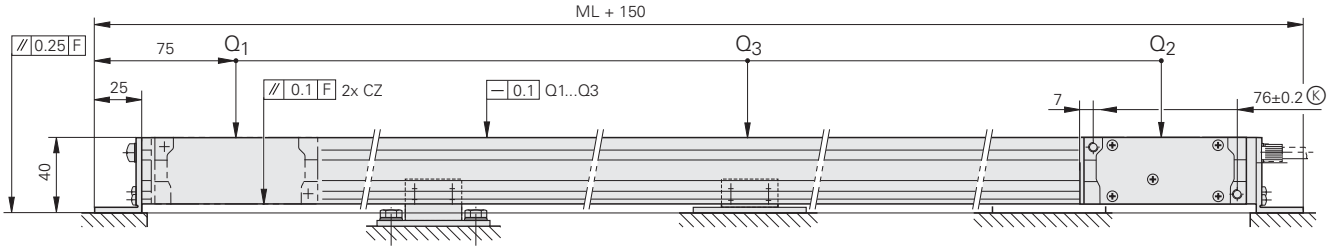

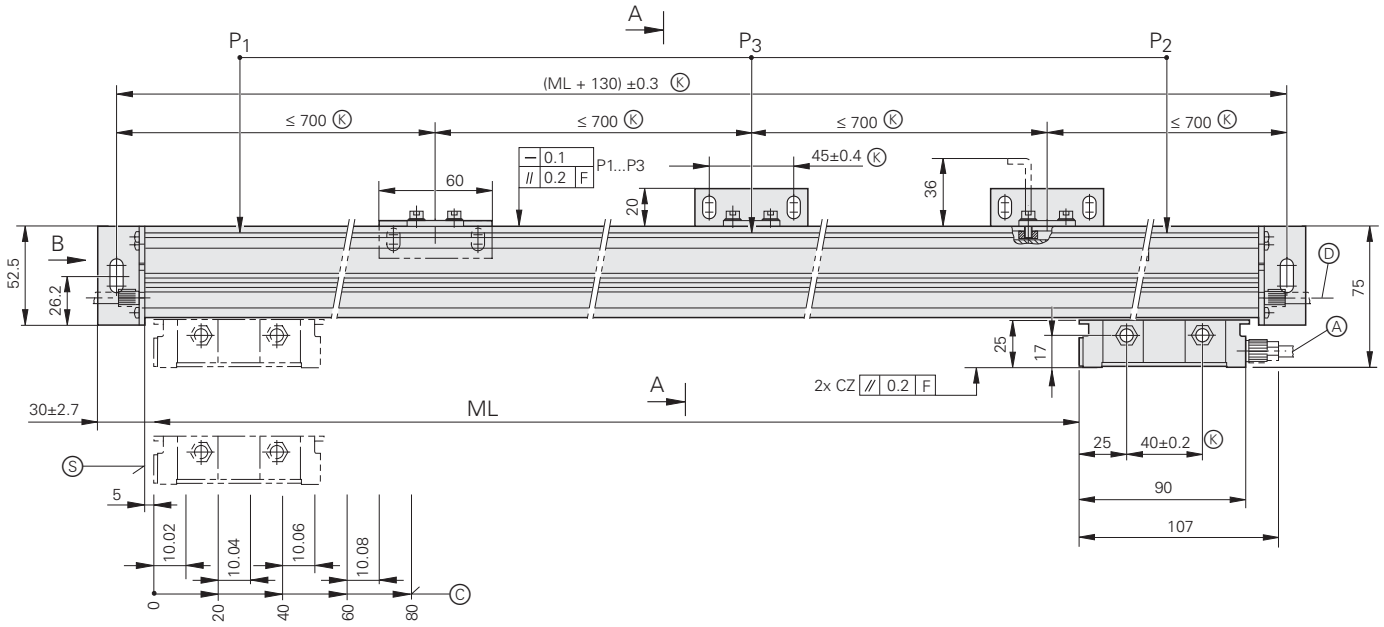

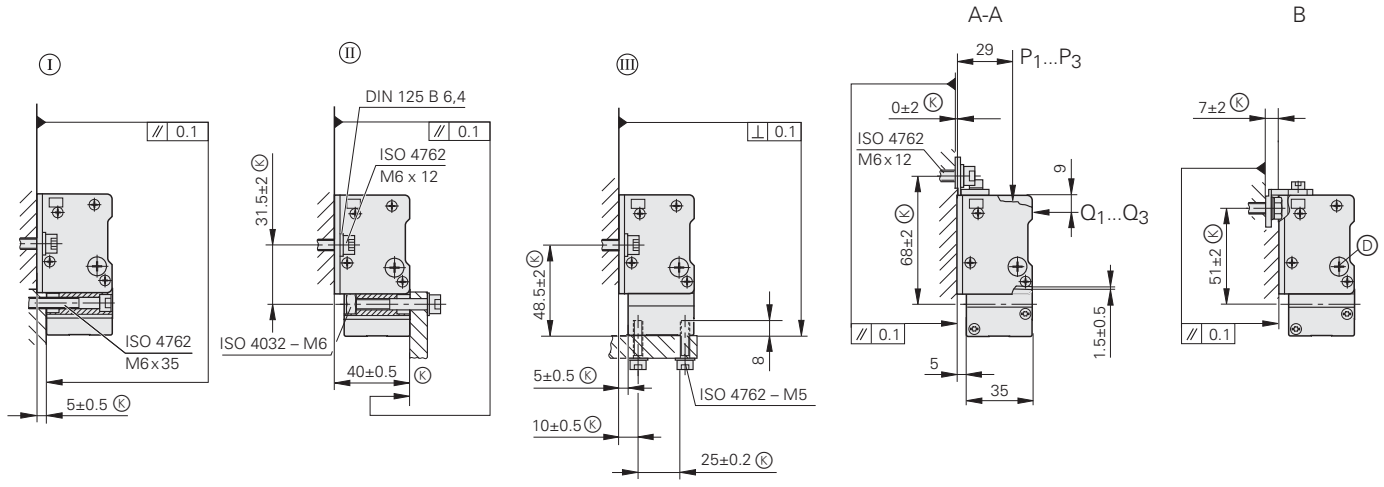

Dimensions in mm

Tolerancing ISO 8015
ISO 2768 - m H
< 6 mm: ±0.2 mm

Ⅰ, Ⅱ,
Ⅲ = Mounting options
F = Machine guideway
P, Q = Gauging points for alignment
Ⓐ = Cable connection usable at either end
Ⓓ = Compressed air inlet usable at either end
Ⓚ = Required mating dimensions
Ⓢ = Beginning of measuring length (ML)
Ⓒ = Reference-mark position on LS 6x8C

Specifications	Incremental	
	LS 688C	**LS 628C**
Measuring standard	Glass scale with DIADUR graduation	
Accuracy grade	± 10 µm	
Measuring length ML*	170 220 270 320 370 420 470 520 570 620 670 720 770 820 870 920 970 1020 1140 1240 1340 1440 1540 1640 1740 1840 2040 2240 2440 2640 2840 3040	
Incremental signals	∿ 1 V_{PP}	⊓⊔ TTL
Grating period	20 µm	
Edge separation a	–	≤ 5 µs
Reference mark	Distance-coded	
Recommended measuring step[1)]	10 µm, 5 µm	
Power supply	5 V ± 5%/< 100 mA (without load)	
Electrical connection	Separate adapter cable connectable to mounting block	
Cable length	≤ 30 m (with HEIDENHAIN cable)	
Traversing speed	≤ 60 m/min	
Required moving force	≤ 5 N	
Vibration 55 to 2000 Hz **Shock** 6 ms	≤ 150 m/s^2 (IEC 60068-2-6) ≤ 300 m/s^2 (IEC 60068-2-27)	
Operating temperature	0 °C to 50 °C	
Protection EN 60529	IP 53 when mounted according to the instructions	
Weight	0.7 kg + 2 kg/m measuring length	

* Please select when ordering
1) For position measurement