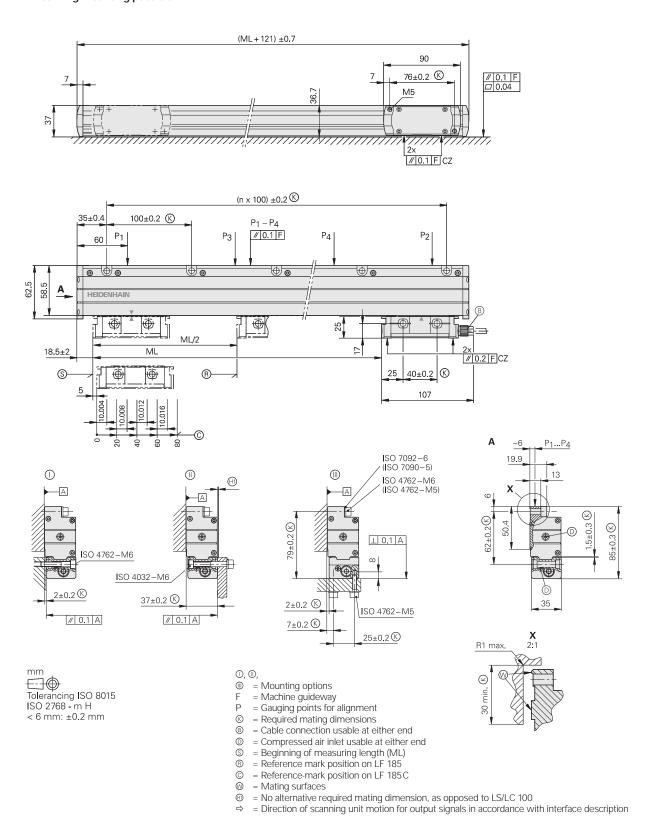
LF 185

Incremental linear encoders with full-size scale housing

- Very high repeatability
- Thermal behavior similar to steel or cast iron
- Reclining mounting possible





Specifications	LF 185
Measuring standard Coefficient of linear expansion	SUPRADUR phase grating on steel, grating period 8 μ m $\alpha_{therm} \approx 10 \text{ x } 10^{-6} \text{ K}^{-1}$
Accuracy grade*	± 3 µm; ± 2 µm
Measuring length ML* in mm	140 240 340 440 540 640 740 840 940 1040 1140 1240 (greater measuring lengths in preparation)
Incremental signals	∼1 Vpp
Signal period	4 μm
Reference marks* LF 185 LF 185 C	One reference mark at midpoint; other reference mark positions upon request Distance-coded
Cutoff frequency -3 dB	≥ 250 kHz
Electrical connection	Separate adapter cable (1 m/3 m/6 m/9 m) connectable to mounting block
Cable length	≤ 150 m (with HEIDENHAIN cable)
Power supply without load	5 V DC ± 5 %/< 120 mA
Traversing speed	≤ 60 m/min
Required moving force	≤ 4 N
Vibration 55 Hz to 2000 Hz affecting the Shock 11 ms Acceleration	Housing: ≤ 150 m/s ² (EN 60068-2-6) Scanning unit: ≤ 200 m/s ² (EN 60068-2-6) ≤ 300 m/s ² (EN 60068-2-27) ≤ 100 m/s ² in measuring direction
Operating temperature	0 °C to 50 °C
Protection EN 60529	IP 53 when installed according to instructions in the brochure IP 64 with sealing air via DA 400
Weight	0.8 kg + 4.6 kg/m measuring length

^{*} Please select when ordering

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