



HEIDENHAIN



Incremental sealed linear encoder

With steel measuring standard

Areas of application

- High-accuracy precision machine tools
- Jig boring machines

Characteristics

- Very small signal period
- High repeatability
- Installation with mounting spar possible

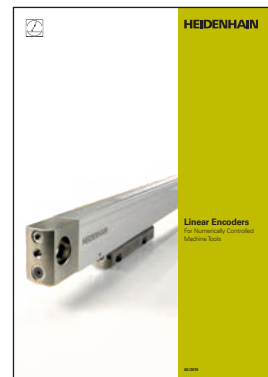
Specifications

- Accuracy grades $\pm 3 \mu\text{m}$, $\pm 5 \mu\text{m}$
- Signal period $4 \mu\text{s}$
- Measuring length Up to 1220 mm

Interface

- 1 V_{PP}

For more information from HEIDENHAIN, please e-mail us at info@heidenhain.de or call +49 8669 31-0. The brochures shown below are also available on the Internet at www.heidenhain.com ▶ *Service & Support* ▶ *Downloads* ▶ *Brochures*



Brochure
Linear Encoders
For Numerically Controlled Machine Tools



Product Information
LC 116, LC 196 F,
LC 416, LC 496 F
Absolute Linear Encoders
with Optimized Scanning

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Incremental sealed linear encoder

With steel measuring standard

Areas of application

- High-accuracy precision machine tools
- Jig boring machines

Characteristics

- Very small signal period
- Very high repeatability

Specifications

- Accuracy grades $\pm 2 \mu\text{m}$, $\pm 3 \mu\text{m}$
- Signal period $4 \mu\text{s}$
- Measuring length Up to 3040 mm

Interface

- 1 V_{PP}

LF 400

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Linear Encoders

for Numerically Controlled
Machine Tools

LF 100



Absolute sealed linear encoder

The standard device for machine tools

Areas of application

- Highly dynamic machines
- Direct drives

Characteristics

- Very high signal quality
- Very high reliability
- Optimized scanning with LC 1x6

Specifications

- Accuracy grades $\pm 3 \mu\text{m}$, $\pm 5 \mu\text{m}$
- Signal period 20 μm
- Resolution Down to 1 nm
- Measuring length Up to 4240 mm

Interfaces

- EnDat 2.2
- Fanuc
- Mitsubishi
- Siemens
- Panasonic

LC 100



Absolute sealed linear encoder

For limited installation space

Areas of application

- Highly dynamic machines
- Direct drives

Characteristics

- Very high signal quality
- High reliability
- Optimized scanning with LC 4x6

Specifications

- Accuracy grades $\pm 3 \mu\text{m}$, $\pm 5 \mu\text{m}$
- Signal period 20 μm
- Resolution Down to 1 nm
- Measuring length Up to 2040 mm

Interfaces

- EnDat 2.2
- Fanuc
- Siemens
- Mitsubishi
- Panasonic

LC 400



Absolute sealed linear encoder

The standard device for large machine tools

Areas of application

- Machines with large traverse paths
- Direct drives

Characteristics

- High signal quality
- High reliability
- Simplified mounting

Specifications

- Accuracy grades $\pm 3 \mu\text{m}$, $\pm 5 \mu\text{m}$
- Signal period 40 μm
- Resolution Down to 1 nm
- Measuring length Up to 28040 mm

Interfaces

- EnDat 2.2
- Fanuc
- Mitsubishi

LC 200



Filter system

For sealing air in encoders

Areas of application

- Machine tools

Characteristics

- Optimized for low volume flows
- Tolerant of sudden pressure fluctuations
- Improved filter characteristics

Specifications

- Cyclone separator
- Prefilter 5 μm
- Fine filter 0.01 μm
- Pressure regulator
- Activated carbon filter
- Purity classes 5/6/4 → DA 400 → 1/4/1 (as per ISO 8573-1: 2010)

DA 400