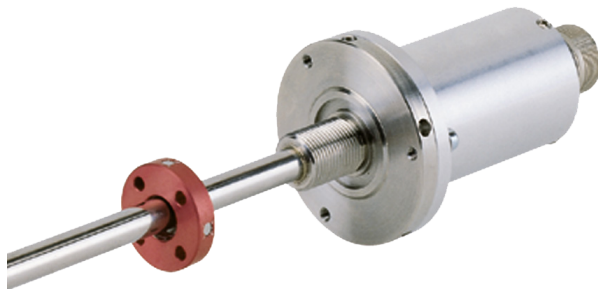


Linear-Transducer LA65H - CO



Ref.: K-LA65-CO-1

18.11.2013

0102010060

Advantages

- _ Customer-specific solutions
- _ Flexible programming
- _ Further interfaces available
- _ Measures linear movements
- _ Pressure proof tube housing
- _ Sensor and tube are separable
- _ Wear-free detection

General Data

| | |
|-----------------------------|---|
| Supply | |
| - Supply voltage | 24 VDC, -20...+10 % |
| Current consumption no load | <= 250 mA |
| Measuring principle | magnetostrictive |
| Measuring length, standard | 150...3000 mm, in steps |
| Resolution | 0.01 mm |
| Linearity deviation | < 0.05 % |
| Reproducibility | 0.01 mm |
| Hysteresis | 0.1 mm |
| Temperature coefficient | < 8 $\mu\text{m}/^\circ\text{C}$ <= 500 mm < 15 $\text{ppm}/^\circ\text{C}$ > 500 mm |
| Straight line velocity | no restrictions |
| Mounting position | no restrictions |
| Material - Measuring body | Cr/Ni - alloy |
| Rod end mounting | Option |
| Magnet | T4-M33 other on request |
| CANopen - Interface | |
| - CANopen | EN 50325-4 |
| - Bus connection | ISO 11898-1, ISO 11898-2 |
| - CAN Specification 2.0 A | 11-Bit Identifier |

Subject to change.

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General Data continuation

| | |
|--------------------------------|---------------------------|
| - Device-Profile for Encoder | CiA DS406 |
| Transmission rate | |
| - Specific value | 20, 125, 500, 1000 kbit/s |
| - Adjustability | by means of DIP-switches |
| Parameter/Function, changeable | Resolution |
| | Preset parameter |
| | Counting direction |
| Type of parametrization | programmable |
| Prgramming - Tool | Fieldbus-Device |
| Cycle time, internal | see dimensional drawing |

Environmental conditions

| | |
|--------------------------|---------------------------|
| Vibration | |
| - Specific value | $\leq 100 \text{ m/s}^2$ |
| - Sine | 50...2000 Hz |
| Shock | |
| - Specific value | $\leq 1000 \text{ m/s}^2$ |
| - Half sine | 11 ms |
| Immunity to disturbance | DIN EN 61000-6-2 |
| Transient emissions | DIN EN 61000-6-3 |
| Working temperature | |
| - Standard | 0...+70 °C |
| - Optional | -20...+70 °C; |
| Storage temperature, dry | -30...+85 °C |
| Relative humidity | 98 %, non condensing |
| Protection class | |
| - Standard | IP65 |
| Stray magnetic field | $< 3 \text{ mT}$ |
| Measuring reference | Measuring plane |
| Pressure resistance | |
| - Optional | 600 bar, static |

Subject to change.

