

Linear-Transducer LA46 (H) - ES3

Ref.: K-LA46-ES3-1

18.11.2013

0102010050

Advantages

- _ Further interfaces available
- _ Measures linear movements
- _ Option: Exchangeable sensor
- _ Perfect fit for cylinders
- _ Position value - Adjustment
- _ Pressure proof tube housing
- _ Wear-free detection



General Data

Supply	
- Supply voltage	24 VDC, -20...+10 %
Current consumption no load	<= 300 mA
Measuring principle	magnetostrictive
Measuring length, standard	50...2000 mm, in steps
Resolution	0.001 mm
Linearity deviation	± 0.10 mm <= 1500 mm ± 0.15 mm > 1500 mm
Reproducibility	0.005 mm
Hysteresis	0.02 mm <= 1500 mm 0.1 mm > 1500 mm
Temperature coefficient	< 8 µm/°C <= 500 mm < 15 ppm/°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
SERCOS III - Interface	
- SERCOS III	IEC 61784-2, IEC 61158

Subject to change.

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General Data continuation

- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- Device profile	Encoder Profile
Transmission rate	
- Specific value	100 MBit/s
Cycle time	$\geq 130 \mu\text{s}$
Parameter/Function, changeable	Zero adjustment
	Counting direction
Type of parametrization	programmable
Prgramming - Tool	Fieldbus-Device
	TR-Soft: TRWinProg
Cycle time internal, $\leq 0.50 \text{ m}$	0.50 ms
Cycle time internal, $\leq 1.00 \text{ m}$	1.00 ms
Cycle time internal, $\leq 2.00 \text{ m}$	1.50 ms

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.

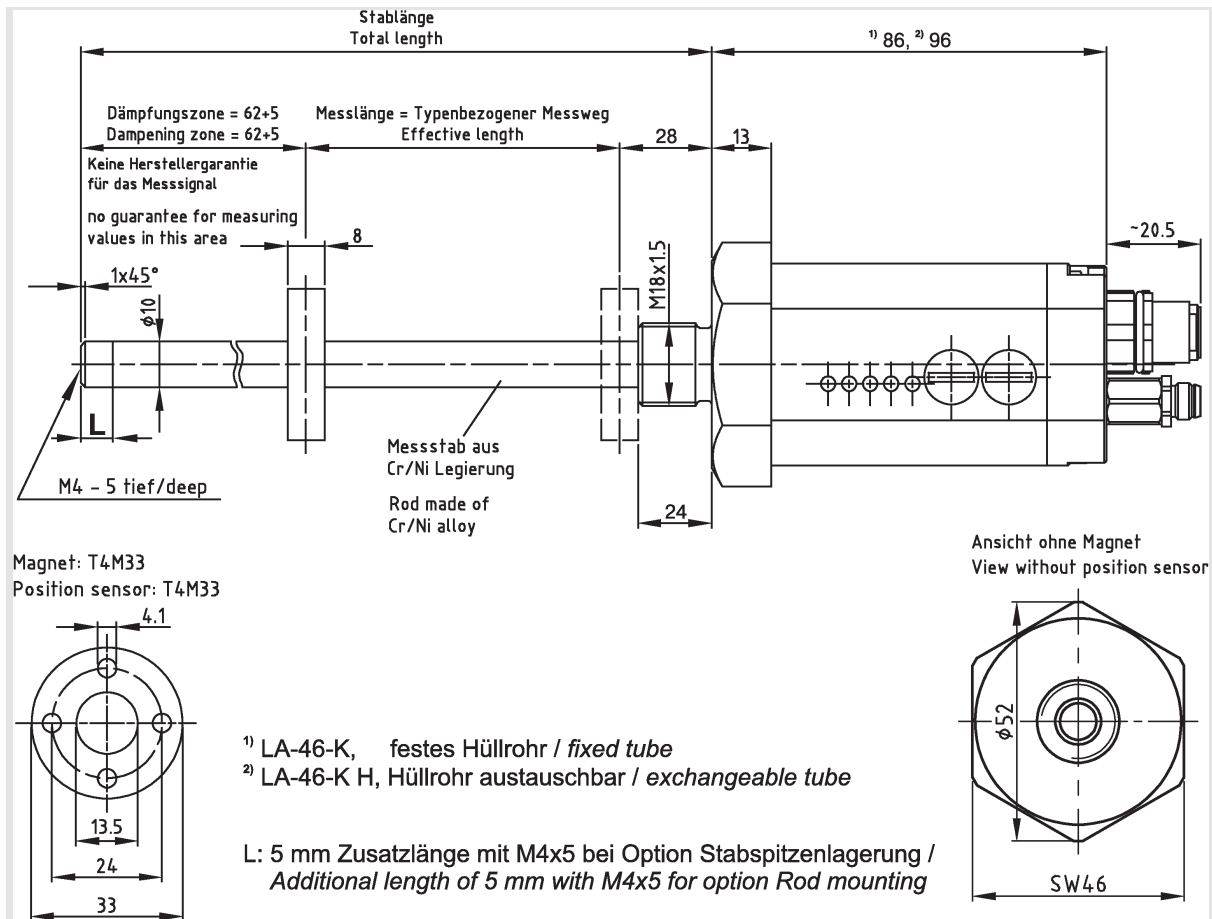
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Dimensional drawing



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