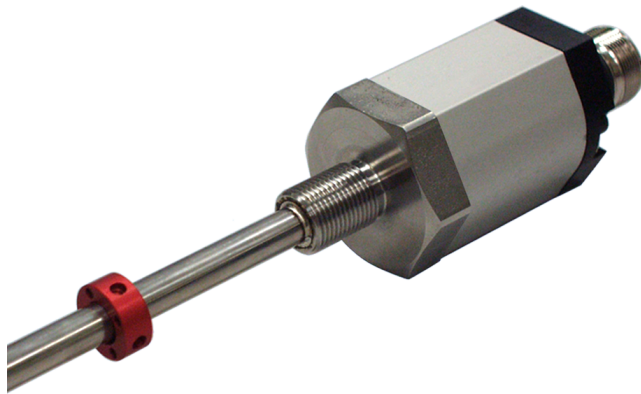


Linear-Transducer LA46K (H) - A



Ref.: K-LA46-A-1

18.11.2013

0102010050

Advantages

- _ Adjustment via set-inputs
- _ Customer-specific solutions
- _ Further interfaces available
- _ Measures linear movements
- _ Option: Exchangeable sensor
- _ Perfect fit for cylinders
- _ Pressure proof tube housing
- _ Wear-free detection

General Data

Supply	
- Supply voltage	24 VDC \pm 10 %
Current consumption no load	\leq 100 mA
Measuring principle	magnetostrictive
Measuring length, standard	50...2000 mm, in steps
Resolution	0.001 mm
Linearity deviation	\pm 0.10 mm \leq 1500 mm \pm 0.15 mm $>$ 1500 mm
Reproducibility	0.005 mm
Hysteresis	0.02 mm \leq 1500 mm 0.1 mm $>$ 1500 mm
Temperature coefficient	$<$ 40 ppm/ $^{\circ}$ C
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
Analog - Interface	
- Voltage/Current	Factory setting
- Resolution	16 Bit D/A converter

Subject to change.

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Linear-Transducer LA46K (H) - A

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General Data continuation

- Voltage output	-10...+10 VDC
- Load resistance (U)	>= 0.68 kOhm
- Current output	0...20 mA
- Load resistance (I)	<= 500 Ohm
Cycle time internal, <= 1.00 m	0.50 ms
Cycle time internal, <= 1.50 m	0.75 ms
Cycle time internal, <= 2.00 m	1.00 ms
External inputs	
- Set-Input 1	Analog initial point
- Set-Input 2	Analog end point
- Logic level	"0" < +2V, "1" = Supply

Environmental conditions

Vibration	
- Specific value	<= 100 m/s ²
- Sine	50...2000 Hz
Shock	
- Specific value	<= 1000 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 mT
Measuring reference	Measuring plane
Pressure resistance	
- Optional	600 bar, static

Subject to change.

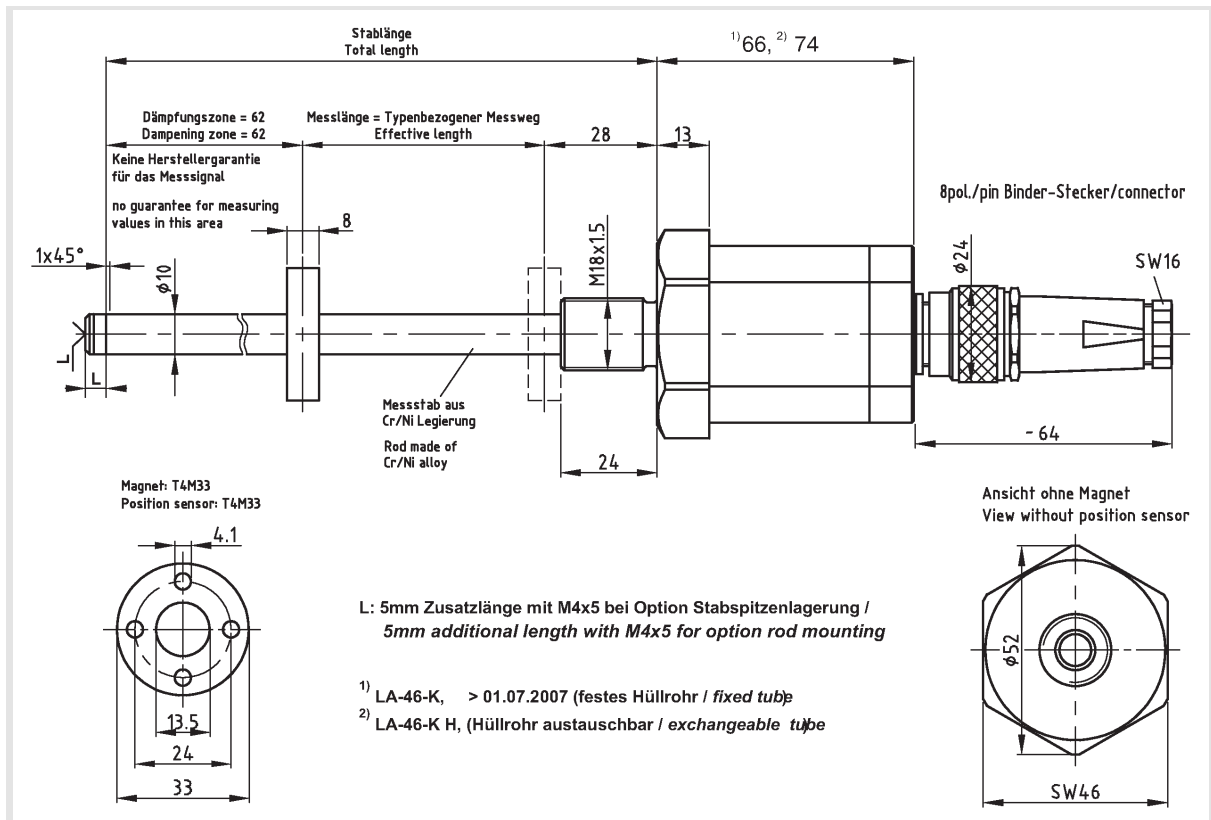
Linear-Transducer LA46K (H) - A

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Dimensional drawing



Suggested products

LA_46K*150 ANA_I +JUSTAGE 4...20mA 16 bit incl. Gegenst.	321-00593
LA_46K*1000 ANA_I +JUSTAGE 4...20mA 16 bit incl. Gegenst.	321-00597
LA_46K*500 ANA_I +JUSTAGE 4...20mA 16 bit incl. Gegenst.	321-00599
LA_46K*300 ANA_I +JUSTAGE 4...20mA 16 bit incl. Gegenst.	321-00616
LA_46K*750 ANA_I +JUSTAGE 4...20mA 16 bit incl. Gegenst.	321-01002

Subject to change.