

Linear-Transducer LP46K - PB

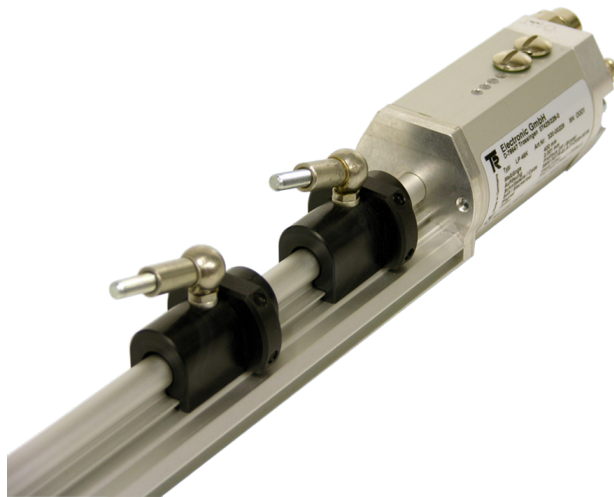
Ref.: K-LP46-PB-1

14.11.2013

0102010130

Advantages

- _ Customer-specific solutions
- _ Flexible programming
- _ Further interfaces available
- _ Measures linear movements
- _ Position value - Adjustment
- _ Profile housing
- _ Simple integration
- _ Wear-free detection



General Data

Supply	
- Supply voltage	24 VDC, -20...+10 %
Current consumption no load	<= 150 mA
Measuring principle	magnetostrictive
Measuring length, standard	50...2000 mm, in steps
Resolution	0.001 mm, 3 magnets
	0.05 mm, 30 magnets
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	Aluminium extruded profile
Magnet	Slider
	other on request
PROFIBUS - Interface	
- PROFIBUS-DP V0	IEC 61158, IEC 61784

Subject to change.

TR-Electronic GmbH
 Eglisshalde 6
 78647 Trossingen
 Tel. +49 (0) 7425 228-0
 info@tr-electronic.de
www.tr-electronic.de

Linear-Transducer LP46K - PB

Ref.: K-LP46-PB-1

14.11.2013

0102010130

General Data continuation

- PNO Encoder-Profile	Class 1 and 2
Transmission rate - Specific value	9.6...12000 kbit/s
Parameter/Function, changeable	Resolution
	Preset parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Prgramming - Tool	Fieldbus-Device
	TR-Soft: TRWinProg
Cycle time internal, <= 1.00 m	1.00 ms
Cycle time internal, <= 1.50 m	1.50 ms
Cycle time internal, <= 2.00 m	2.00 ms
Cycle time internal, <= 2.50 m	2.50 ms
Cycle time internal, > 2.50 m	3.00 ms
Optional Magnets - Number of magnets	3, 30
- Magnet - Minimum distance	80 mm

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

Subject to change.

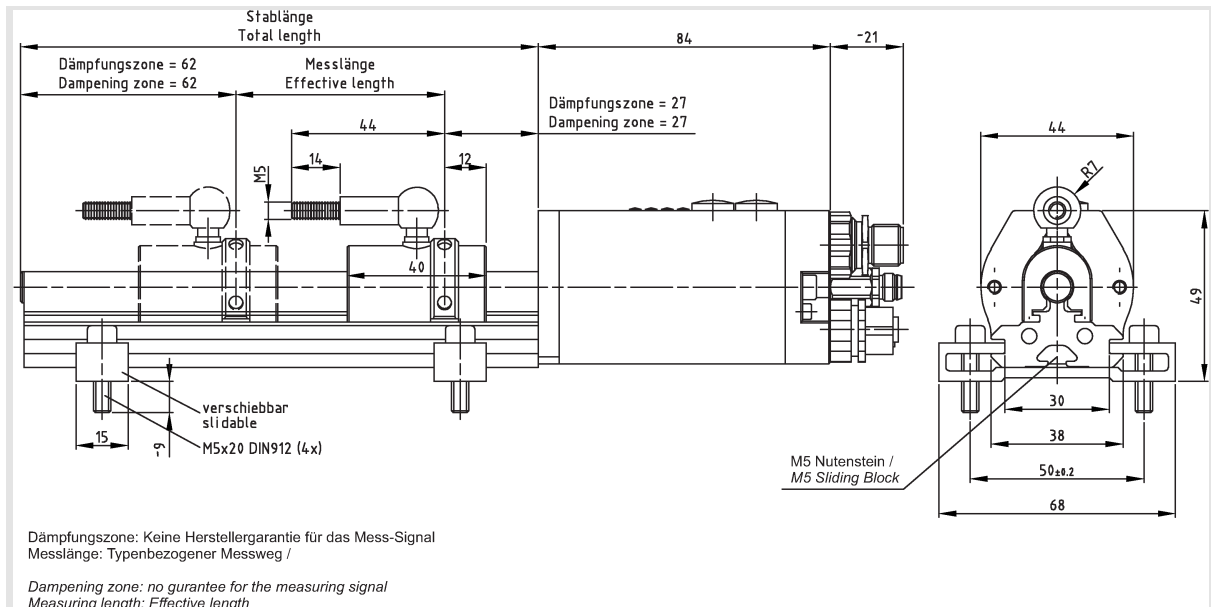
Linear-Transducer LP46K - PB

Ref.: K-LP46-PB-1

14.11.2013

0102010130

Dimensional drawing



Suggested products

LP_46K*750 PB R 0,005mm Feldbushaube	320-00259
LP_46K*1000 PB R 0,005mm Feldbushaube	320-00260
LP_46K*150 PB R 0,005mm Feldbushaube	320-00282
LP_46K*300 PB R 0,005mm Feldbushaube	320-00360
LP_46K*500 PB R 0,005mm Feldbushaube	320-00438

Subject to change.