

Linear-Transducer LP46K - DN



Ref.: K-LP46-DN-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	24 VDC, -20...+10 %
- Supply voltage	
Current consumption no load	<= 250 mA
Measuring principle	magnetostrictive
Measuring length, standard	50...2000 mm, in steps
Resolution	0.005 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	Aluminium extruded profile
Magnet	Slider
	other on request
CAN DeviceNet - Interface	
- CAN DeviceNet	EN 50325-2
- Bus connection	ISO 11898-1, ISO 11898-2

Subject to change.

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General Data continuation

- CAN Specification 2.0 A	11-Bit Identifier
Transmission rate	
- Specific value	125, 250, 500 kbit/s
- Adjustability	by means of DIP-switches
Parameter/Function, changeable	Resolution
	Output code
	Preset parameter
	Counting direction
Type of parametrization	programmable
Prgramming - Tool	Fieldbus-Device
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

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.

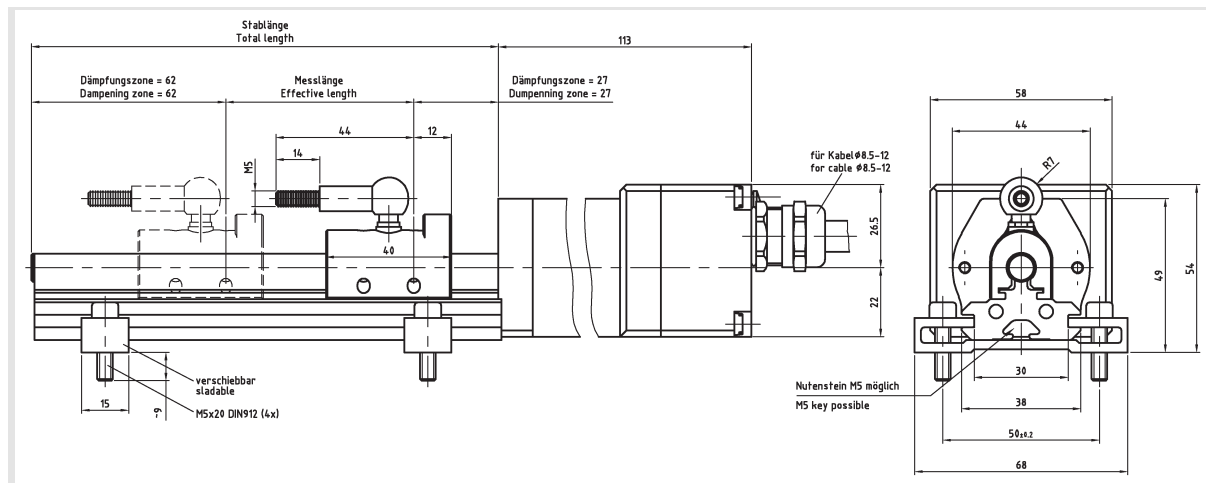
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Dimensional drawing



Suggested products

LP_46*150 DN	320-00132
R 0,01mm Feldbushaube	
LP_46*300 DN	320-00187
R 0,01mm Feldbushaube	
LP_46*500 DN	320-00188
R 0,01mm Feldbushaube	
LP_46*750 DN	320-00632
R 0,01mm Feldbushaube	
LP_46*1000 DN	320-00633
R 0,01mm Feldbushaube	

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