

Linear-Transducer LMP48 - SSI



Ref.: K-LMP48-SSI-1

18.10.2021

01020102000206

Advantages

- Compact construction
- Further interfaces available
- Measures linear movements
- Profile housing
- Wear-free detection

General Data

Supply	
- Supply voltage	9...36 VDC
Current consumption no load	<= 100 mA
Measuring principle	magnetostrictive
Measuring length, standard	50...3000 mm
Resolution	0.1 mm
Linearity deviation	± 0.04 % + 1 LSB
- FS:	Full-Scale
Reproducibility	< 0.005 % FS, >= 50 µm
- FS:	Full-Scale
Hysteresis	0.1 mm
Characteristics - Validity	using original TR Magnets
Temperature coefficient	± 15 ppm/°C FS, typically
	± 30 ppm/°C FS
Straight line velocity	no restrictions
Mounting position	no restrictions
Material - Measuring body	Aluminium extruded profile
Magnet	T1-S3818
	T1-S5520
	T4-U3820

Subject to change.

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General Data continuation

	Slider
	other on request
	not included
SSI - Interface	
- SSI-Clock input	Optocoupler
- SSI-Data output	RS-422, 2-wire
Cycle time internal, <= 2.00 m	2.00 ms
Cycle time internal, <= 3.00 m	3.00 ms

Environmental conditions

Vibration	DIN EN 60068-2-6
- Specific value	<= 100 m/s ²
- Sine	50...2000 Hz
Shock	DIN EN 60068-2-27
- 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	-40...+85 °C
Storage temperature, dry	-40...+100 °C
Relative humidity	90 %, non condensing
Protection class	
- Standard	IP65
Stray magnetic field	DIN EN 61000-4-8, Test Level 4
Measuring reference	Measuring plane

Subject to change.

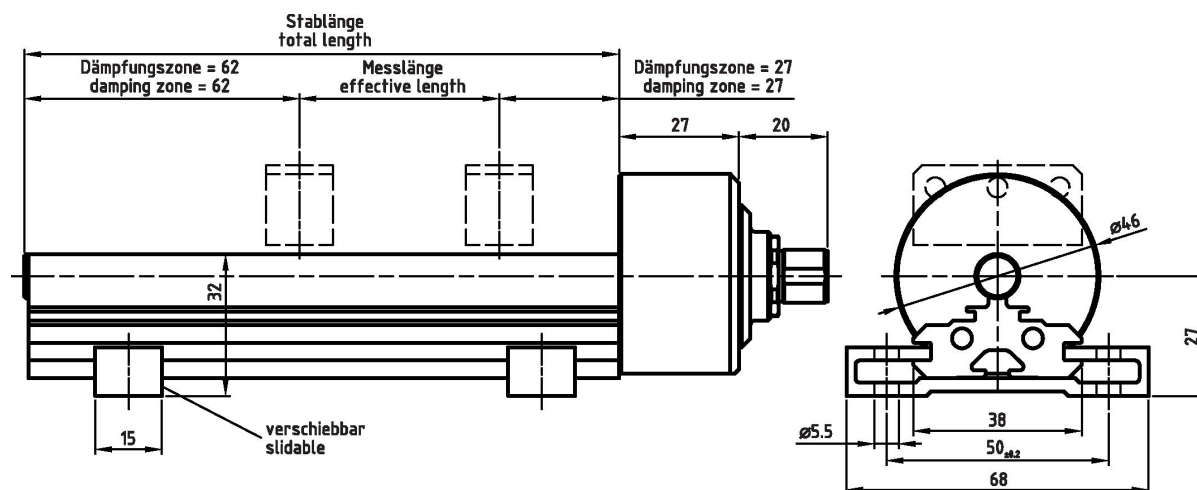
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Dimensional drawing



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Suggested products

LMP_48*750 SSI	333-00003
LMP_48*1900 SSI	333-00101
LMP_48*910 SSI	333-00102
LMP_48*1600 SSI	333-00113
LMP_48*900 SSI	333-00121
LMP_48*1100 SSI	333-00122

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