

Linear-Transducer LMR48/46 - A



Ref.: K-LMR46-A-1
 07.07.2016
 0102010215

Advantages

- Customer-specific solution
- Further interfaces available
- Measures linear movement
- Pressure proof tube housing
- Wear-free detection

General Data

Supply	
- Supply voltage	12...27 VDC
Current consumption no load	<= 100 mA
Measuring principle	magnetostrictive
Measuring length, standard	50...2500 mm
Linearity deviation	± 0.04 % + 1 LSB
Hysteresis	0.1 mm
Valid only	using original TR Magnets
Temperature coefficient	100 ppm/°C
Straight line velocity	no restrictions
Mounting position	no restrictions
Material - Measuring body	Cr/Ni - alloy
Magnet	T4-M33, T4-M22, T4-M20
Analog - Interface	
- Voltage/Current	Factory setting
- Resolution	12 Bit D/A converter
- Voltage output	0...+10 VDC
- Current output	0...24 mA
- Load resistance (I)	<= 250 Ohm
Parameter/Function, changeable	Analog Voltage/Current
	Counting direction

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General Data continuation

Type of parametrization	Factory setting
Cycle time, internal	≤ 2 ms
External inputs - F/R	Count direction
- Logic level	"0" < +2V, "1" = Supply

Environmental conditions

Vibration	
- Specific value	≤ 150 m/s ²
- Specific value	≤ 200 m/s ²
- Sine	5 kHz
- Sine	10...500 Hz
Shock	
- Specific value	≤ 500 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
- Optional	IP69K
Pressure resistance	
- Static	450 bar
- Peak	750 bar

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Dimensional drawing

