

Linear-Transducer LA50 - A



Ref.: K-LA50-A-1

18.11.2013

0102019999

Advantages

- Adjustment via set-inputs
- Customer-specific solutions
- Further interfaces available
- Measures linear movements
- Wear-free detection
- Withstands aggressive media

General Data

Supply	
- Supply voltage	24 VDC, -20...+10 %
Current consumption no load	<= 100 mA
Measuring principle	magnetostrictive
Measuring length, standard	100...1000 mm, in steps
Resolution	0.001 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	< 40 ppm/°C
Straight line velocity	no restrictions
Mounting position	no restrictions
Material - Measuring body	Polypropylene
Magnet	T4-M33 other on request
Analog - Interface	
- Voltage/Current	Factory setting
- Resolution	16 Bit D/A converter
- Voltage output	-10...+10 VDC

Subject to change.

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General Data continuation

- Load resistance (U)	$\geq 0.68 \text{ k}\Omega$
- Current output	0...20 mA
- Load resistance (I)	$\leq 500 \text{ }\Omega$
Cycle time internal, $\leq 1.00 \text{ m}$	0.50 ms
Cycle time internal, $\leq 1.50 \text{ m}$	0.75 ms
Cycle time internal, $\leq 2.00 \text{ m}$	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	$\leq 100 \text{ m/s}^2$
- Sine	50...2000 Hz
Shock	
- Specific value	$\leq 1000 \text{ m/s}^2$
- 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	IP68
- Note	depending on connector type
Stray magnetic field	< 3 mT
Measuring reference	Measuring plane

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Dimensional drawing

Derzeit keine Zeichnung verfügbar
No drawing available

Subject to change.