

Linear-Transducer LA41K - SSI



Ref.: K-LA41-SSI-1

18.11.2013

0102010030

Advantages

- _ Customer-specific solutions
- _ Flexible programming
- _ Further interfaces available
- _ Housing length: 42 mm
- _ Measures linear movements
- _ Perfect fit for cylinders
- _ Pressure proof tube housing
- _ Wear-free detection

General Data

Supply	
- Supply voltage	24 VDC, -20...+10 %
Current consumption no load	<= 250 mA
Measuring principle	magnetostrictive
Measuring length, standard	150...3000 mm, in steps
Resolution	0.01 mm
Linearity deviation	< 0.05 %
Reproducibility	0.01 mm
Hysteresis	0.1 mm
Temperature coefficient	< 8 $\mu\text{m}/^\circ\text{C}$ <= 500 mm < 15 ppm/ $^\circ\text{C}$ > 500 mm
Straight line velocity	no restrictions
Mounting position	no restrictions
Material - Measuring body	Cr/Ni - alloy
Rod end mounting	Option
Magnet	T4-M33 other on request
SSI - Interface	
- SSI-Clock input	Optocoupler
- SSI-Data output	RS-422, 2-wire
- SSI-Clock frequency	95...1000 kHz

Subject to change.

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

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General Data continuation

- SSI-Mono time, typically	20 μ s
Parameter/Function, changeable	Resolution
	Output code
	Output format
	Preset parameter
	Counting direction
Type of parametrization	programmable
Prgramming - Tool	TR-Tool: PT-100-N
Cycle time, internal	see dimensional drawing
External inputs	
- F/R	Count direction
- Preset	electronic adjustment
- Logic level	"0" < +2V, "1" = Supply

Environmental conditions

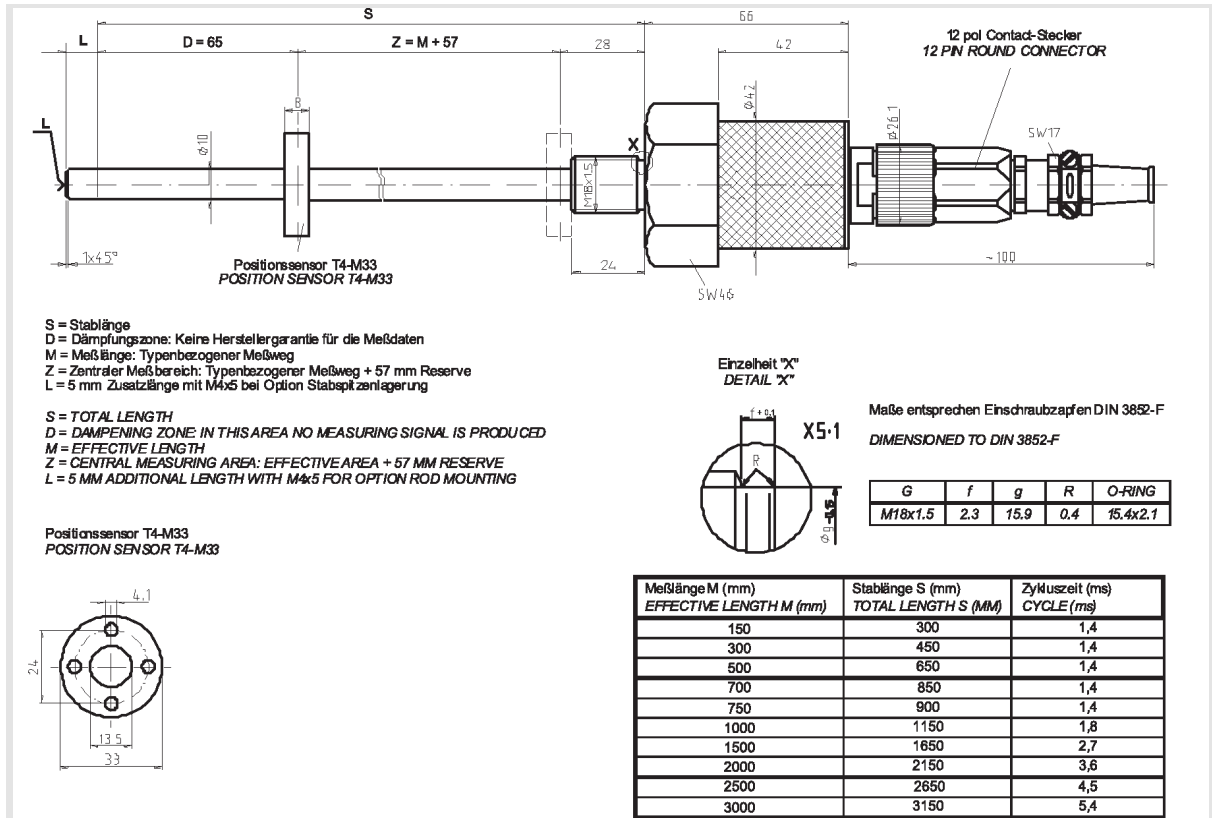
Vibration	
- Specific value	≤ 100 m/s ²
- Sine	50...2000 Hz
Shock	
- Specific value	≤ 1000 m/s ²
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	0...+70 °C
- Optional	-20...+70 °C;
Storage temperature, dry	-30...+85 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65
Stray magnetic field	< 3 mT
Measuring reference	Measuring plane
Pressure resistance	
- Optional	600 bar, static

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Dimensional drawing



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