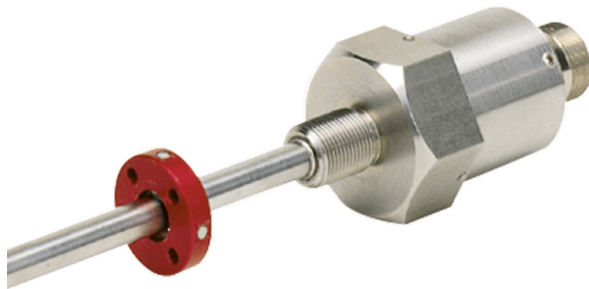


Linear-Transducer LA41K - COI



Ref.: K-LA41-CO-1

18.11.2013

0102010030

Advantages

- _ Customer-specific solutions
- _ Flexible programming
- _ Further interfaces available
- _ Housing length: 65 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
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
CANopen - Interface	
- CANopen	EN 50325-4
- Bus connection	ISO 11898-1, ISO 11898-2
- CAN Specification 2.0 A	11-Bit Identifier
- Device-Profile for Encoder	CiA DS406

Subject to change.

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General Data continuation

Transmission rate	
- Specific value	20, 125, 500, 1000 kbit/s
- Adjustability	by means of DIP-switches
Parameter/Function, changeable	Resolution
	Preset parameter
	Counting direction
Type of parametrization	programmable
Prgramming - Tool	Fieldbus-Device
Cycle time, internal	see dimensional drawing

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	IP43
Stray magnetic field	< 3 mT
Measuring reference	Measuring plane
Pressure resistance	
- Optional	600 bar, static

Subject to change.

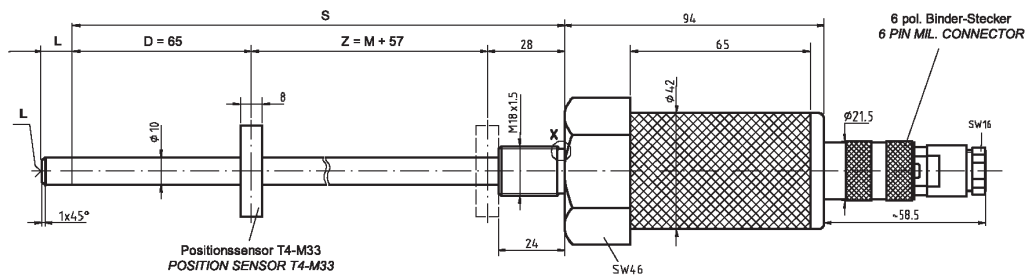
Linear-Transducer LA41K - COI

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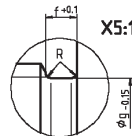
Dimensional drawing



S = Stablänge
D = Dämpfungszone: Keine Herstellergarantie für die Meßdaten
M = Meßlänge: Typenbezogener Meßweg
Z = Zentraler Meßbereich: Typenbezogener Meßweg + 57 mm Reserve
L = 5 mm Zusatzlänge mit M4x5 bei Option Stabspitzenlagerung

S = TOTAL LENGTH
D = DAMPENING ZONE: IN THIS AREA NO MEASURING SIGNAL IS PRODUCED
M = EFFECTIVE LENGTH
Z = CENTRAL MEASURING AREA: EFFECTIVE AREA + 57 MM RESERVE
L = 5 MM ADDITIONAL LENGTH WITH M4x5 FOR OPTION ROD MOUNTING

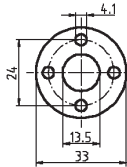
Einzelheit "X"
DETAIL "X"



Maße entsprechen Einschraubzapfen DIN 3852-F
DIMENSIONED TO DIN 3852-F

G	f	g	R	O-RING
M18x1.5	2.3	15.9	0.4	15.4x2.1

Positionssensor T4-M33
POSITION SENSOR T4-M33



Meßlänge M (mm) EFFECTIVE LENGTH M (mm)	Stablänge S (mm) TOTAL LENGTH S (MM)	Zykluszeit (ms) CYCLE (ms)
150	300	1,4
300	450	1,4
500	650	1,4
700	850	1,4
750	900	1,4
1000	1150	1,8
1500	1650	2,7
2000	2150	3,6
2500	2650	4,5
3000	3150	5,4

Subject to change.