

Linear-Transducer LMR48 - CO

Ref.: K-LMR48-CO-1

14.11.2013

0102010210

Advantages

- Customer-specific solutions
- Flexible programming
- Further interfaces available
- Measures linear movements
- Pressure proof tube housing
- Sensor and tube are separable
- Wear-free detection



General Data

Supply	
- Supply voltage	12...24 VDC $\pm$ 10 %
Current consumption no load	$\leq$ 100 mA
Measuring principle	magnetostrictive
Measuring length, standard	50...2500 mm
Resolution	0.1 mm
Linearity deviation	$\pm$ 0.04 % + 1 LSB
Hysteresis	0.1 mm
Temperature coefficient	$\pm$ 15 ppm/ $^{\circ}$ C, typically
	$\pm$ 30 ppm/ $^{\circ}$ C
Straight line velocity	no restrictions
Mounting position	no restrictions
Material - Measuring body	Cr/Ni - alloy
Magnet	T4-M33, T4-M22, T4-M20
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
- Layer Setting Services, LSS	CiA DS305
Parameter/Function, changeable	Resolution

Subject to change.

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General Data continuation

	Node-ID
	Preset parameter
	Transmission rate
	Counting direction
Type of parametrization	programmable
Prgramming - Tool	Fieldbus-Device
	TR-Soft: TRWinProg
Cycle time, internal	<= 2 ms

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

Subject to change.

