Linear-Encoder LA-66-K ASI

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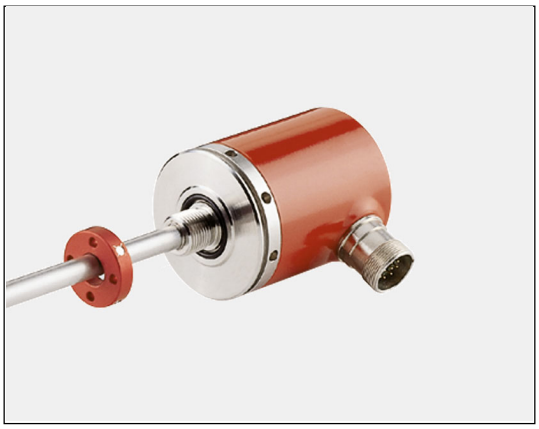

- **High Pressure Type, Makes it Possible for Installation into Hydraulic Cylinders**
- **For Linear Measurement**
- **Non Contact and Wear Free**
- **ASI (Asynchronous Serial Interface)**

Electrical Data

Measurement Principle	Magnetostrictive
Measuring Length (Stroke) Standard (mm)	150, 300, 500, 700, 750, 1000, 1500, 2000, 2500, 3000
	> 3000 by request
Sensor Capacity	max. 20 Bit
Resolution	max. 0.01 mm
Operating Voltage	19-27 V DC
Power Dissipation (No Load)	< 5 Watt
Output Code	BCD, Binary, Gray
Baud Rate	4800, 9600, 19200, 38400
Data Output	RS422 (2-wire)
Communication Format	1 Start Bit, 7 Data Bits, 1 Parity Bit, 2 Stop Bits
Data Format	ASCII
Standard Communication	ASCII, 6 Character + CR
Baud Rate	4800
Input Options	
Forward / Reverse	Change direction of count
Preset	Adjust absolute position to a given set value (i.e. zero set)
Logic Levels	“0“ < + 2 V DC, “1“ > + 8 V DC, max. 30 VDC
Pin Configuration	Upon Request

Environmental Data

Electromagnetic compatibility (EMC)	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Operating Temperature	0°-70°C (32° to 158° F) (Optional -20° to +70°C) (-4° to 158° F)
Storage Temperature	-30° to +80°C (-22° to 178° F)
Relative Humidity	98 % (non condensing)
*Protection Class	IP 65 (DIN 40 050)

* The protection class of the sensor can be effected by the type of connector used.

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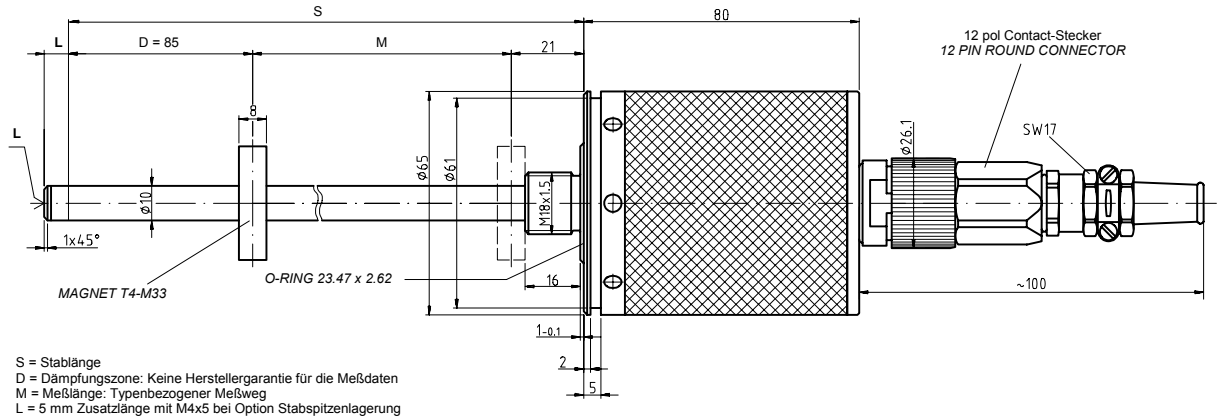
Mechanical Data

Linearity	< 0.05 % of Stroke Length
Repeatability	≤ 0.01 mm
Hysteresis	< 0.1 mm
Temperature Coefficient	< 5 µm / °C
Vibration (Sinus 50-2000 Hz)	
per DIN IEC 68-2-6	≤ 100 m/s^2 (10g)
Shock (11ms) per DIN IEC 68-2-27	≤ 1000 m/s^2 (100g)
Pressure Resistance (Option)	600 bar
Rod Material	Cr/Ni-alloy
Magnetic Field	< 3 mT (milli Tesla)
Operating Speed and Mounting Orientation	No restrictions
Magnet Type (Standard)	T4-M33
Magnet Type(Option)	T3-U64
Rod Mounting	Option
Mechanical Special Types	Upon Request
Connector	12 pin Contact Connector

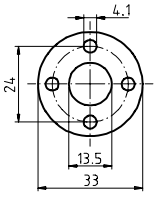
Dimensional Drawing



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

S = TOTAL LENGTH
D = DAMPENING ZONE: IN THIS AREA NO MEASURING SIGNAL IS PRODUCED
M = STROKE LENGTH
L = 5 MM ADDITIONAL LENGTH WITH M4x5 FOR OPTION ROD MOUNTING

MAGNET T4-M33



Meßlänge M (mm) *STROKE LENGTH M (mm)*	Stablänge S (mm) *TOTAL LENGTH S (MM)*	Zykluszeit (ms) *CYCLE (ms)*
150	256	1,4
300	406	1,4
500	606	1,4
700	806	1,4
750	856	1,4
1000	1106	1,8
1500	1606	2,7
2000	2106	3,6
2500	2606	4,5
3000	3106	5,4