Linear-Encoder LA-66-K SS

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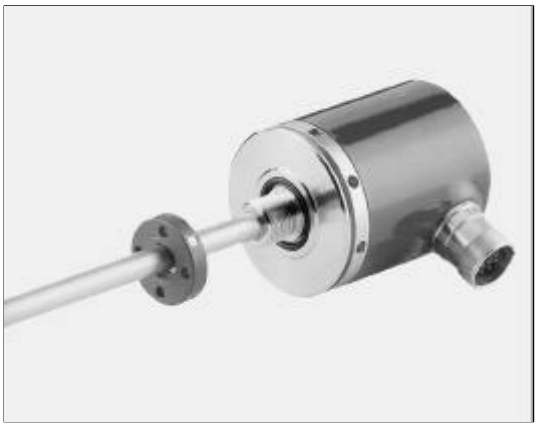

- **High Pressure Type, Makes it Possible for Installation into Hydraulic Cylinders**
- **For Linear Measurement**
- **Non Contact and Wear Free**
- **Start / Stop Interface**

Electrical Data

Measurement Principle	Magnetostrictive
Measuring Length (Stroke) Standard (mm)	150, 300, 500, 700, 750, 1000, 1500, 2000, 2500, 3000, > 3000 by request
Resolution	Dependent on external electronics
Operating Voltage	
TTL-Version	15-27 V DC, Power Dissipation (No Load) < 1.5 Watt
TTL-Version	± 15 V DC, Power Dissipation (No Load) < 1.5 Watt
RS422-Version	24 V DC, Power Dissipation (No Load) < 1.5 Watt
Start / Stop Interface	Start / Stop-Signal for external electronics
Data Transmission Length	max. 15 m with TTL-Version, max. 500 m with RS422-Version
Cycle Time	See Dimensional Drawing
Inputs	
Start-Signal (TTL-Version)	TTL-voltage ("Active-High", Impedance = 470 Ω)
Start-Signal (RS422-Version)	Differential Input
Outputs	
Stop-Signal (TTL-Version)	"H" = 5 V, "L" ≤ 0.2 V ("Active-High ", Impedance = 220 Ω)
Stop-Signal (RS422-Version)	Differential Output
External Electronics	- TR-Module. AK-8, - Siemens Interface Module IP 241, - Philips Positioning Interface 9404 4620 0301, - Bernecker + Rainer, - Harms und Wende etc…
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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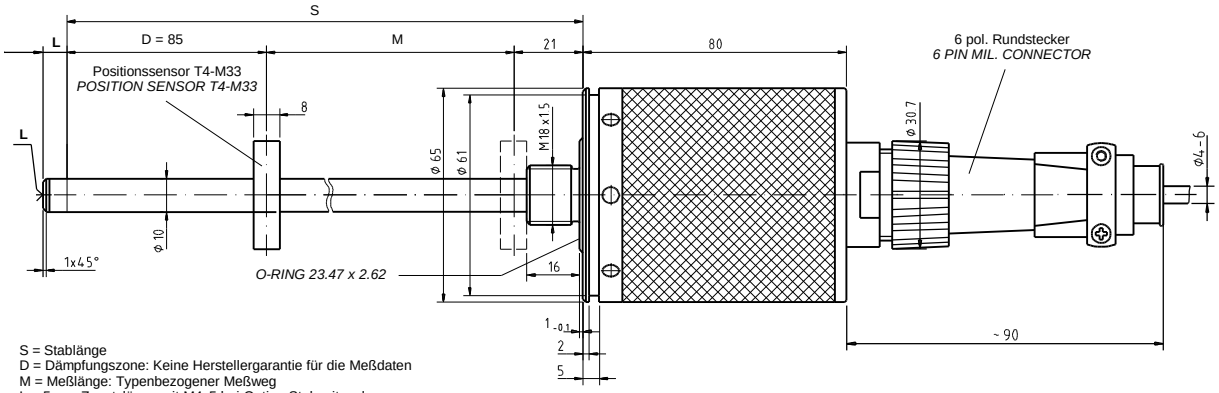
Mechanical Data

Linearity	< 0.05 % of Measuring 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-Mixture
Magnetic Field	< 3 mT (mili 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	6 pin MIL-Connector

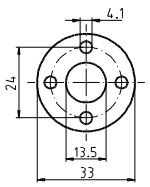
Dimensional Drawing



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 = EFFECTIVE LENGTH
L = 5 MM ADDITIONAL LENGTH WITH M4x5 FOR OPTION ROD MOUNTING

Positionssensor T4-M33
POSITION SENSOR T4-M33



Meßlänge M (mm) *EFFECTIVE LENGTH M (mm)*	Stablänge S (mm) *TOTAL LENGTH S (MM)*	Zykluszeit (µs) *CYCLE (µs)*
150	256	120
300	406	175
500	606	310
700	806	335
750	856	340
1000	1106	450
1500	1606	615
2000	2106	890
2500	2606	1065
3000	3106	1230