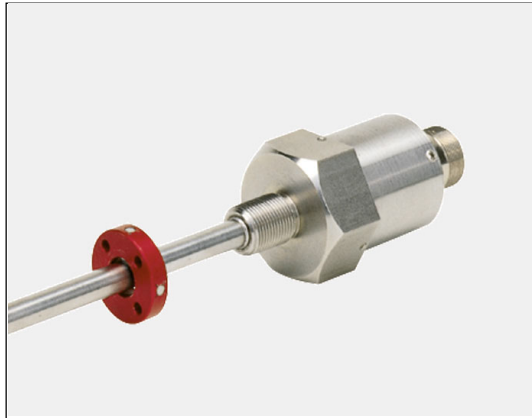


**Linear-Encoder LA-41-K SS**

- **High Pressure Type, Makes it Possible for Installation into Hydraulic Cylinders**
- **For Linear Measurement**
- **Non Contact and Wear Free**
- **Start / Stop Interface**
- **Housing length: 66 mm**

**7****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.	

### 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 <sup>2</sup> (10g)
Shock (11ms) per DIN IEC 68-2-27.....	≤ 1000 m/s <sup>2</sup> (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 .....	6 pin MIL- Connector

### Dimensional Drawing

