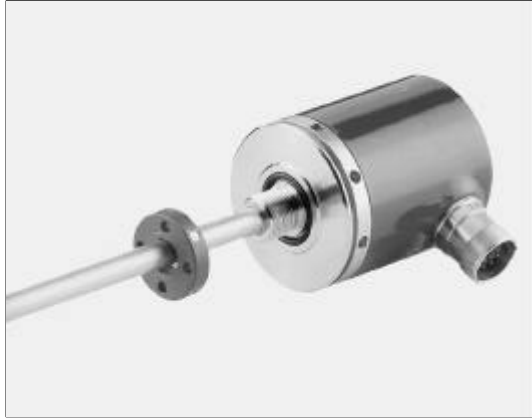
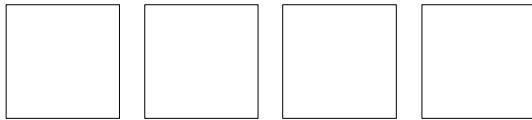


Linear-Encoder LA-66-K ASI



- **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. | |

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 | 12 pin Contact Connector |

Dimensional Drawing

