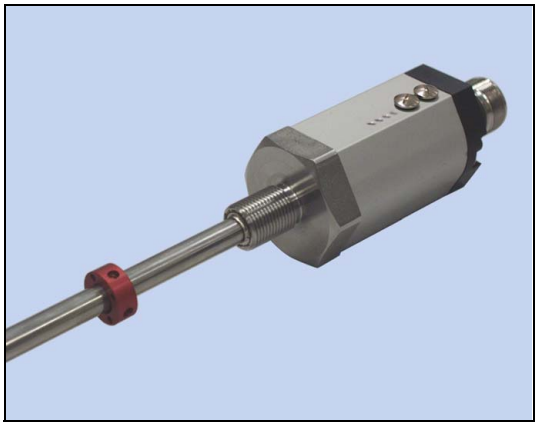
Linear-Transducer LA-46 EIP

Eglishalde 6
D-78647 Trossingen
Tel. +49 - (0) 74 25 / 228 - 0
Fax +49 - (0) 74 25 / 228 - 33
http://www.tr-electronic.de
Germany



- **EtherNet/IP interface**
- **Suitable for a direct installation in hydraulic cylinders, optional**
- **For linear measurement**
- **Non-contact and wear free measurement system**
- **Parameterizable**
- **Position value - Adjustment**
- **Further interfaces available**
- **Customized adaptations upon request**
- **Linear transducer exchangeable, optional**

Characteristics

Supply voltage	24 VDC; -20 %, +10 %
Current consumption without load	< 250 mA
Measuring principle	magnetostrictive
Measuring length, standard	50 mm…2000 mm > 2000 mm on request, in steps of 50 mm
Resolution [1]	≤ 0.001 mm
Linearity deviation, related to the measuring length	± 0.1 mm up to 1.500 mm / ± 0.15 mm > 1.500 mm
Reproducibility	≤ 0.005 mm
Hysteresis	≤ 0.02 mm up to 1.500 mm / ≤ 0.1 mm > 1.500 mm
Temperature coefficient, related to the measuring length	< 8 µm/°C ≤ 500 mm / < 15 ppm/°C > 500 mm
Straight line velocity and mounting position	no restrictions
Material - measuring rod	Cr/Ni - alloy
Rod end mounting	Option
Magnet	Type T4-M33, other on request
EtherNet/IP	IEC 61784-1:2003 CP 2/2 Type 2, IEC 61158:2003 Type 2
- Physical Layer	EtherNet/IP 100Base-TX, Fast Ethernet, ISO/IEC 8802-3
- Output code	Binary
- Device profile	Encoder Device Profile 0x22, ODVA specification
- Transmission rate	100 MBit/s
- Transmission	CAT-5e cable, shielded (STP), ISO/IEC 11801
- Parameter [1]	Resolution, Counting direction, Preset value, Averaging of Position
Cycle times, internal	
≤ 0.5 m	0.5 ms
≤ 1.0 m	1.0 ms
≤ 2.0 m	1.5 ms
Option	
- Number of possible magnets	3, minimum distance between two magnets 50 mm
Programming, alternative	WINDOWS® compatible, TRWinProg

[1] programmable parameter

Eglishalde 6
D-78647 Trossingen
Tel. +49 - (0) 74 25 / 228 - 0
Fax +49 - (0) 74 25 / 228 - 33
http://www.tr-electronic.de
Germany

Environmental conditions

Vibration, DIN EN 60068-2-6: 1996 ..... ≤ 100 m/s^2, sine 50-2000 Hz
Shock, DIN EN 60068-2-27: 1995 ..... ≤ 1000 m/s^2, half-sine 11 ms
EMC
- Discharge of static electricity, DIN EN 61000-4-2: 2001
- Burst, DIN EN 61000-4-4: 2004
- Immunity to disturbance, DIN EN 61000-6-2: 2001

Working temperature ..... 0 °C…+70 °C, optional -20 °C…+70 °C
Storage temperature ..... -30 °C…+85 °C, dry
Relative humidity, DIN EN 60068-3-4: 2002 ..... 98 %, non condensing
Protection class, DIN EN 60529: 1991 [2)] ..... IP 65
Stray magnetic field, measured on the measuring level ..... < 3 mT
Pressure resistance, optional ..... 600 bar static

[2)] valid with screwed on mating connector and / or screwed together cable gland

Dimension drawing