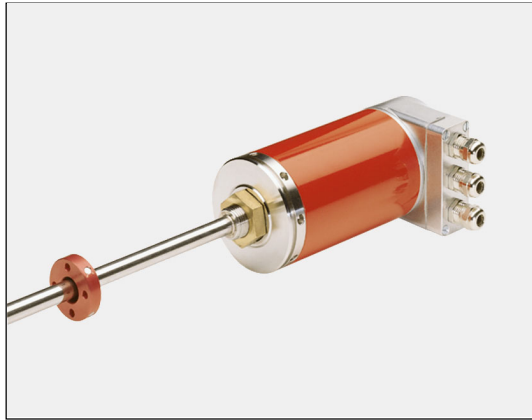


Linear-Encoder LA-66-K IBS



- **High Pressure Type, Makes it Possible for Installation into Hydraulic Cylinders**
- **For Linear Measurement**
- **Non Contact and Wear Free**
- **Programmable via INTERBUS-S**
- **IBS INTERBUS-S 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)	< 4 Watt
Programmable via INTERBUS-S	2 Wire Long Distance Field Bus, RS422, Electrically Isolated
Output Code.....	Binary
Baud Rate	300 kbaud min., 500 kbaud max., Including Control and Status Bytes
Identification Number	51 decimal
Programmable Parameters via IBS bus	
Count Direction	
Number of Counts per Length	
Preset Value	
Adjustf Absolute Value	
Inputs	
Forward / Reverse.....	Change count direction
Preset.....	Adjust absolute position to a given value (i.e. zero set)
Logic Levels	"0" < + 2 V DC, "1" > + 8 V DC, max. 30 V DC
Cycle Time	See Dimensional Drawing
Option.....	Multi-Sensor Type
Number of possible Sensors	12, minimum distance of the sensors 50 mm
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 cable 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 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.....	3 x PG 7 radial mount

Dimensional Drawing

Sichtfenster für 4 LED
 WINDOW FOR 4 LED

Schirmleiter
 SHIELDING

MAGNET T4-M33

O-RING 23.47 x 2.62

PG7

SW14

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

Für Schirmleiter:
 Schraube M4x8 und Kabelschuh,
 mit Zahnscheibe nach DIN 6797-A
 4.3-FSt unterlegt.

FOR SHIELDING:
 USE METRIC SCREW M4X8 WITH FORKED TERMINAL
 FOR GOOD CONTACT TO HOUSING USE A STUDDED
 DISK DIN 6797-A 4.3-FST.

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