Linear-Transducer LP-38 A

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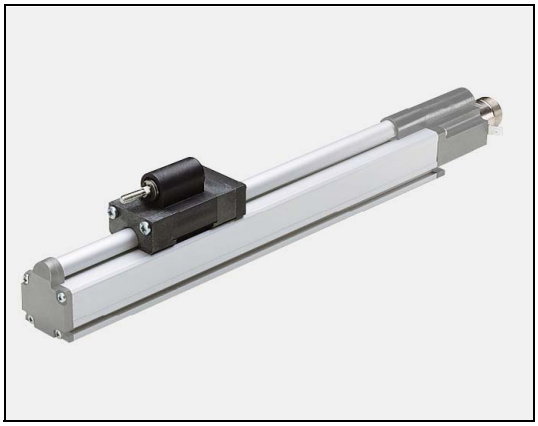

- **Analog interface**
- **For linear measurement**
- **Non-contact and wear free measurement system**
- **Easy mounting, by means of profile housing**
- **Adjustment via set-inputs**
- **Further interfaces available**
- **Customized adaptations upon request**

Characteristics

Supply voltage	24 VDC ±10 %
Current consumption without load	< 350 mA
Measuring principle	magnetostrictive
Measuring length in mm	150, 300, 500, 700, 750, 1000, 1500, 2000, 2500, 3000, > 3000 on request
Resolution	≤ 0.1 mm
Linearity deviation, related to the measuring length	< 0,05 %
Reproducibility	≤ 0.01 mm
Hysteresis	≤ 0.1 mm
Temperature coefficient, related to the measuring length	< 40 ppm/°C
Straight line velocity and mounting position	no restrictions
Material - measuring body	Aluminium extruded profile
Magnet	Type T4-U3820, other on request
A	16 Bit - Analog interface
Analog voltage / Analog current	defined by factory setting
Voltage output	0 V…+10 V, +10 V…0 V, ±5 V, ±10 V
- Load resistance	≥ 680 Ω
Current output	0…20 mA, 4…20 mA
- Load resistance	≤ 500 Ω
Cable length, dependent on electric shielding	
- Voltage output	≤ 10 m
- Current output	≤ 1000 m
Cycle times	see dimensional drawing
Inputs	
- Starting point	Definition of the starting point of the analog signal
- Final point	Definition of the final point of the analog signal
- Logic level	"0“ < + 2 VDC, "1“ = Supply voltage

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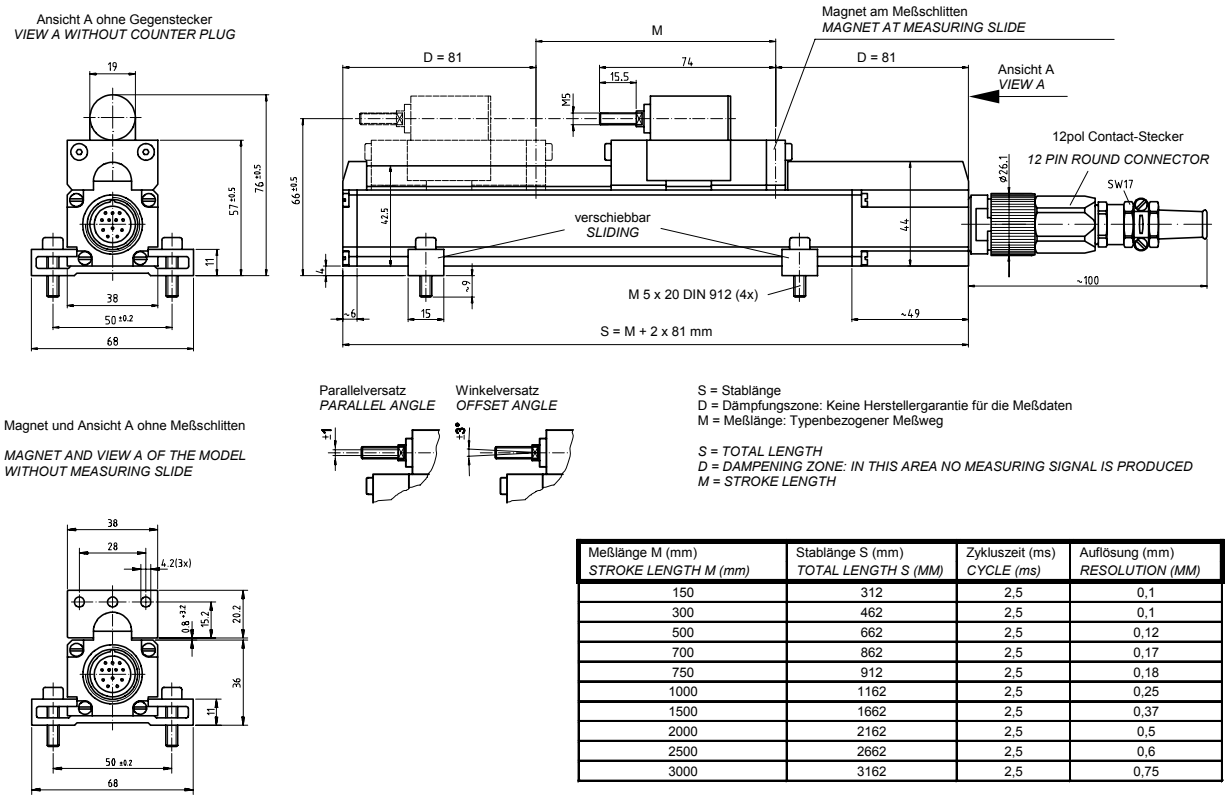
Environmental conditions

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

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

Dimension drawing



S = Stablänge
D = Dämpfungszone: Keine Herstellergarantie für die Meßdaten
M = Meßlänge: Typenbezogener Meßweg

S = TOTAL LENGTH
D = DAMPENING ZONE: IN THIS AREA NO MEASURING SIGNAL IS PRODUCED
M = STROKE LENGTH

Meßlänge M (mm) *STROKE LENGTH M (mm)*	Stablänge S (mm) *TOTAL LENGTH S (MM)*	Zykluszeit (ms) *CYCLE (ms)*	Auflösung (mm) *RESOLUTION (MM)*
150	312	2,5	0,1
300	462	2,5	0,1
500	662	2,5	0,12
700	862	2,5	0,17
750	912	2,5	0,18
1000	1162	2,5	0,25
1500	1662	2,5	0,37
2000	2162	2,5	0,5
2500	2662	2,5	0,6
3000	3162	2,5	0,75