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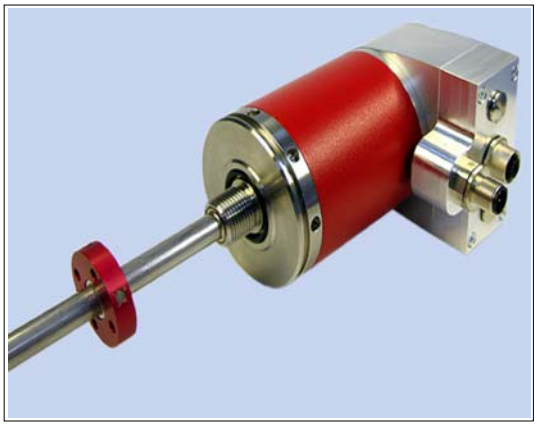
Linear-transducer LA-66 E-Powerlink



- **Suitable for a direct installation in hydraulic cylinders**
- **Non-contact and wear free measurement System**
- **Adjustable measuring range**
- **Ethernet PowerLink – interface**
- **Easy mounting**
- **Customizations upon request**

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Characteristics

Measuring principle	magnetostrictive
Measuring length	50 mm – 2000 mm > 2000mm upon request, in Steps of 50 mm
Resolution	max. 0,005 mm
Linearity deviation - related to the measuring length	±0,1mm to 1.000mm / ±0,15mm > 1.000mm
Repeatability	≤ 0,005 mm
Hysteresis	≤ 0,02 mm
Temperature coefficient	< 5 µm / °C
Magnet velocity and mounting position	no restriction
Material - measuring body	Cr/Ni - alloy
Magnet	T4-M33, other upon request
Operating voltage	24 VDC -20%, +10 %
Power consumption (without load)	< 4 Watt
Data protocol	ETHERNET Powerlink (Interoperabilität with other device example TCP/IP)
Output code	binary / gray
Baudrate	100 Mbps
Cycle time ≤ 0,5 m	0,5 ms
≤ 1,0 m	1,0 ms
≤ 2,0 m	1,5 ms
Progarmmable via bus	Ethernet-PowerLink
Resolution	
Count direction	
Adjustment	
Output code	
Rod end mounting	option
Connection	1 x Binder M12-socket, 1 x Binder M12 pin for power supply, others upon request

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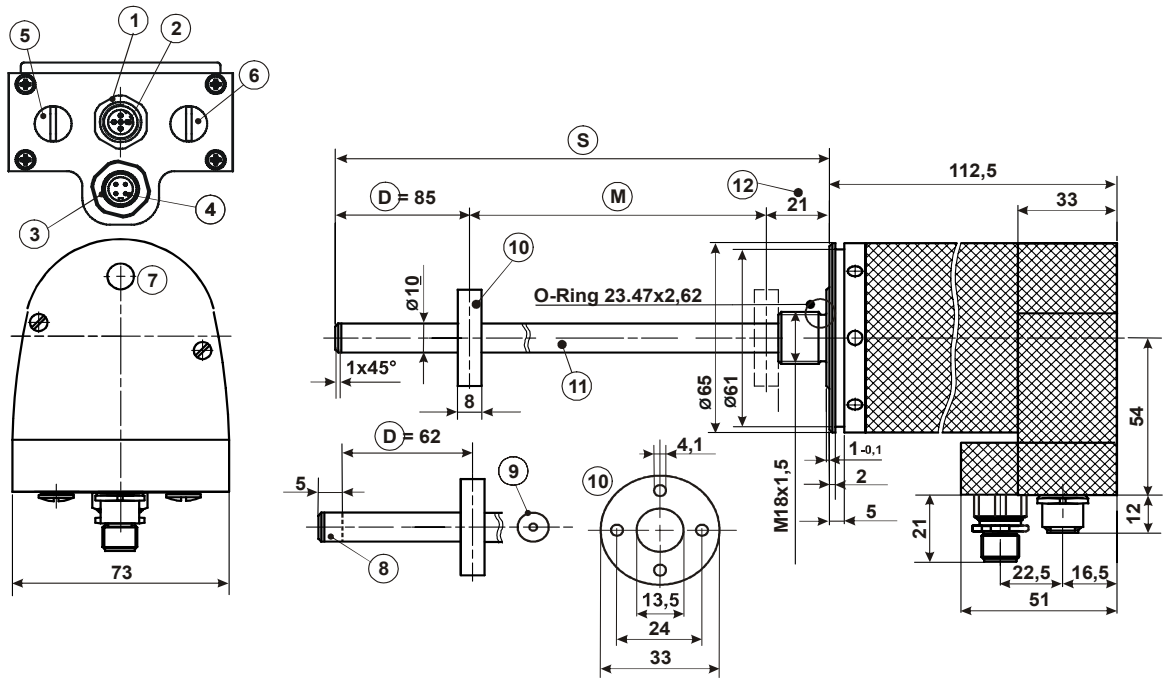
Environmental conditions

Vibration	≤ 100 m/s² (10g) sine 50-2000 Hz acc. DIN IEC 68-2-6
Shock	≤ 1000 m/s² (100g) 11ms acc. DIN IEC 68-2-27
Stray magnetic field	< 3 mT (measured at measuring level)
EMC	DIN EN 61000-4-2 / DIN EN 61000-4-4 / DIN EN 61000-6-2
Operating temperature	0°C ... 70°C (as option -20°C…+70°C/ -40°C …+85°C)
Storage temperature range	-30°C … +85°C dry
Relative humidity	98 % (non condensing)
Pressure resistance	600 bar static
[1] Protection class	IP 65 compliant DIN 40 050

[1] This is valid, if the plug connectors are connected correctly and/or the cable gland is screwed together correctly
Other protection class upon request.

Dimension drawing



S	Rod length (S = M+106mm)	6	Address X10[1]
D	Damping zone (incorrect measured value)	7	Display for 4LED
M	Length of the effective range	8	Rod end mounting optional (length = S + 5 mm)
1	Data Connector Binder M12 4-pin d-coded.	9	Blind-hole thread M4x5Magnet ring
2	Pin 1 clockwise	10	Magnet ring T4-M33
3	Power supply Connector Binder M12 4-pin a-coded	11	Rod material Cr/Ni - alloy 1.4571
4	Pin 1 clockwise	12	T_{dead} – (incorrect measured value)
5	Address X10[0]		