

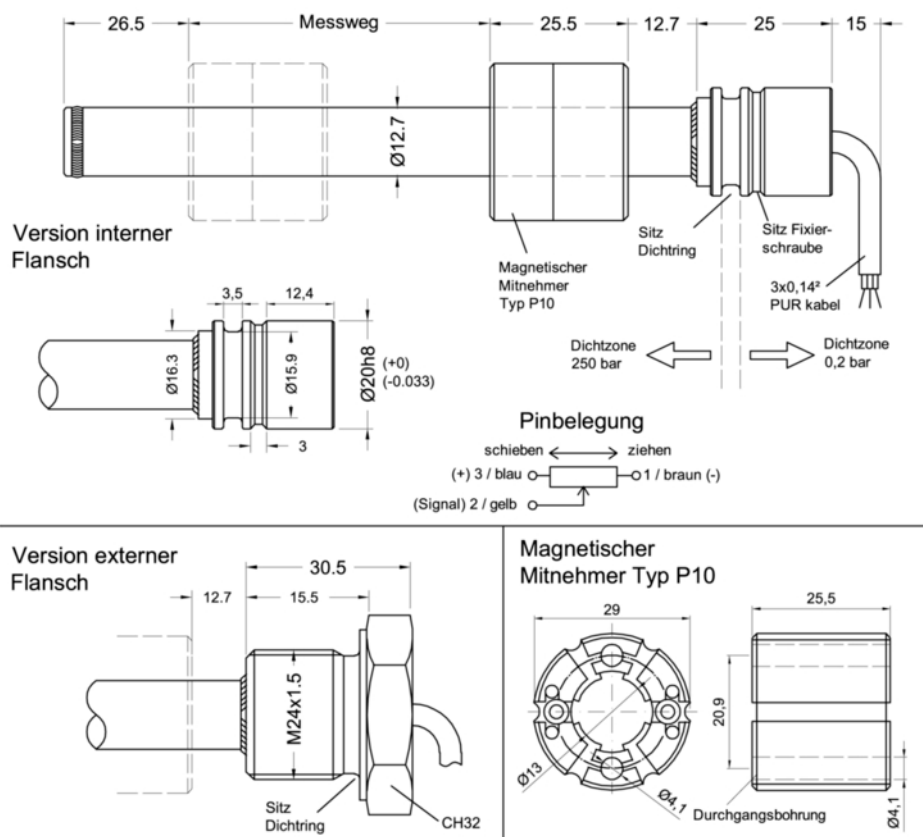
Series HEM12 - Potentiometric Linear Transducer

- Electrical travel from 50 to 1000 mm
- Even for hydraulic applications up to 250 bar
- Operating temperature -30°C to +100°C
- IP67 sealed by magnetically coupled wiper

The type HEM12 is a further development of the proved HEM16 series. The smaller dimensions of shaft (Ø13mm) and housing (Ø20mm) enable an easy integration in hydraulic applications. The sensors are designed for a maximum working pressure of 250 bar, a peak of 400 bar is possible. The measurement is performed by an external magnetically wiper. A complete sealing of IP67 is obtained.



Drawing



Series HEM12 - Potentiometric Linear Transducer

Electrical Data

Electrical Travel	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 750, 800, 850, 900, 950, 1000 mm
Resistance Value	5 kOhm (50-300mm) // 10kOhm (350-600mm) // 20kOhm (750-1000mm)
Standard Resistance Tolerance	± 20%
Independent Linearity tolerance	± 0,35%
Resolution mm	quasi unendlich
Maximum Power at 40°C	1 W (50mm) // 2W (100mm) // 3W (150-1000mm)
Maximum Operating Voltage	60 V
Temperature Coefficient of Resistor	400 ppm/K
Temperature Coefficient of Voltage Divider Circuit	5 ppm/K
Insulation Resistance	> 100 MOhm at 500 V DC
Dielectric Strength	< 500 Veff. (50 Hz)
Maximum Wiper Current on Malfunction	10 mA
Recommended Wiper Current	< 0,1 μA

Mechanical Data

Maximum Displacement Speed	5 m/s
Maximum Acceleration	10 m/s ²
Maximum Operating Force	0,5 N
Hysteresis	< 0,25 mm

Ambient Conditions

Operating Temperature	-30 ... +100° C
Lagertemperatur	-50 ... +120° C
Schutzart	IP67

Options / Accessories

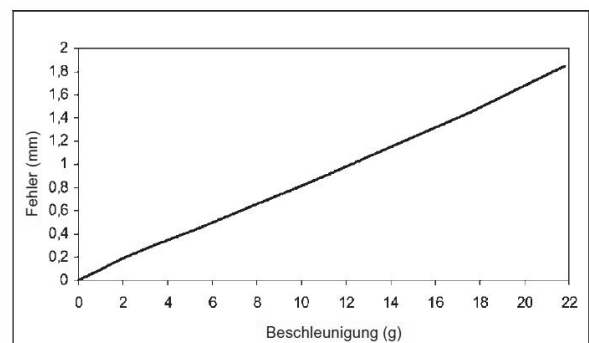
Options

- Special cable length

Accessories

- Magnetically wiper
(1 pc. included in delivery)

Tracking Error



Order Code

Series	Travel	Mech. Version	Connection
HEM12	50 ... 1000 (pls see. table above)	I = Internal Flange E = External Flange	K = Cable

Example: HEM12 100 I K (Series HEM12, elec. travel 100mm, with internal flange, 1m cable)

The specifications and information in this datasheet cannot consider all special demands that are caused by the application. Because of this, they are no general description of the properties of the product.

2008. All specifications are subject to change without notice.