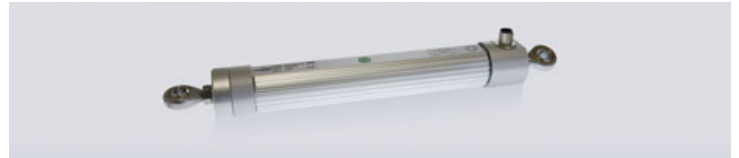


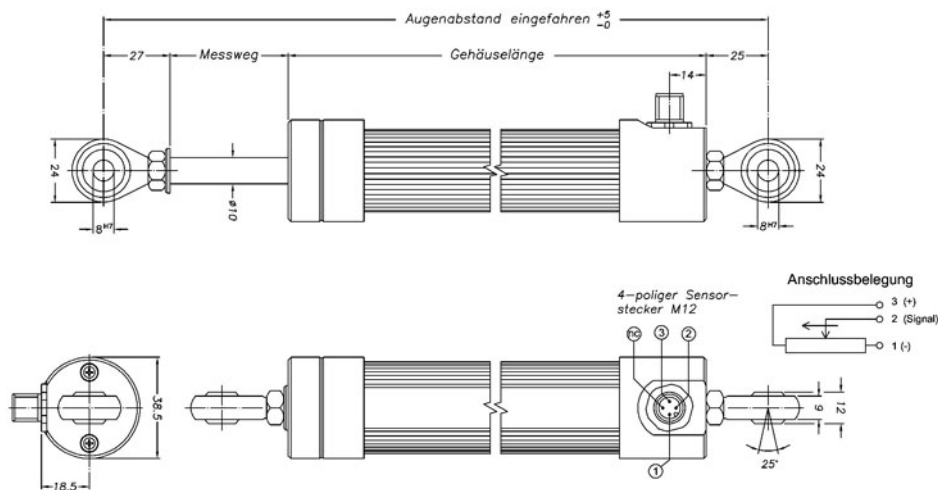
Series RC35 IP67 - Potentiometric Linear Transducer

- Resolution quasi infinite
- Electrical travel from 50 mm to 750 mm
- Displacement speed up to 5 m/s
- Protection class IP67
- Robust and compact design



Because of installation by two ball joints on either side the sensor RC35 can be placed in any mounting position. The housing consists of premium anodized aluminium and the rod of stainless steel. The RC35 is characterized by its compact design and high mechanical stability. In case of rough ambient conditions we recommend the IP67 version.

Drawing



Dimensions in mm

RC35, IP67	50	100	130	150	175	200	225	275	300	360	375	400	450	500	600	750
Electrical Travel + 1	50	100	130	150	175	200	225	275	300	360	375	400	450	500	600	750
Mechanical Travel ± 1	59	109	139	159	184	210	235	285	310	370	386	412	463	518	619	772
Housing Length	193	243	273	293	318	344	369	419	444	510	526	552	603	678	779	932
Hole distance, retracted	245	295	325	345	370	396	421	471	496	562	578	604	655	730	831	984

Series RC35 IP67 - Potentiometric Linear Transducer

Electrical Data

Resistance Values	50 - 600 mm: 5 kOhm 750 mm: 10 kOhm
Linearity Tolerance, independent	± 0,05%
Power Rating at 40°C	3 W
Maximum Operating Voltage	60 V
Temperature coefficient	400 ppm/K
Insulation	> 100 MOhm bei 500 VDC
Dielectric Strength	500 Veff. (50 Hz)
Wiper Current, maximum	< 10 mA
Wiper Current, recommended	< 1 µA (voltage divider circuit)

Mechanical Data

Maximum Operating Friction	> 30 N
Maximum Displacement Speed	3 m/s
Repeatability	0,01 mm
Average Life	> 25 x 10 ⁶ m oder > 100 x 10 ⁶ moves (respectively the lower value)

Ambient Conditions

Operating Temperature	-30 ... + 100° C
Storage Temperature	-45 ... + 120° C

Accessories

- 4-pole plug, type SMG - Part No. 125 301

Order Code

Series	Elec. Travel	Version	Resistance Value	Res. Tol.	Lin. Tol.	Protection
RC35	50 ... 750	S K	5K 10K (750mm only)	20%	0,05%	IP67

Example: RC35 200 S4 R5K W20% L0,05% IP67

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.
28. August 2007. All specifications are subject to change without notice.