

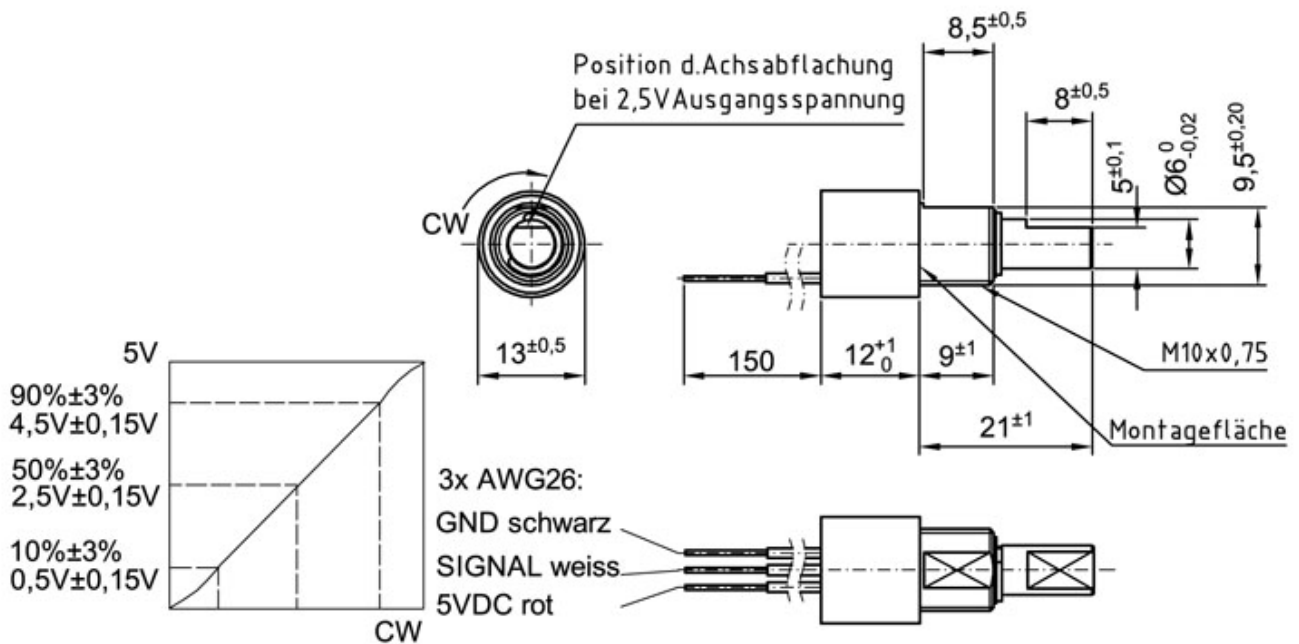
Series MP1613 / Contactless Potentiometer

- 13 mm housing
- life expectancy > 50Mio. turns
- linearity tolerance $\pm 1,5\%$
- customized shaft modifications
- special rotation angles on request

The MP1613 is a well priced and very compact encoder. It works contactless on hall effect principle and therefore it has a very high life time. Shaft modifications are possible also for small quantities. The standard version is available from stock.



Drawing



At 2,5V (= 50%) the flattening of the bushing aligns with the shaft

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Electrical Data

Technology		hall sensor
Electrical angle	[°]	± 45 (90)
Independent linearity tolerance	[%]	± 1,5
Temperatur drift	[%F.S.]	< ± 2,5
Zero point drift	[%F.S.]	< ± 0,5
Supply voltage (U _b)	[V]	5V DC ± 10%
Power consumption	[mA]	6
Load resistance	[kOhm]	> 100
Linear range of output voltage	[%U _b]	10 ... 90

Mechanical Data

Mechanical angle	[°]	360 ohne Stop
Maximum rotational speed	[rpm]	400
Life time	[Udr.]	50 x 10 ⁶
Bearing		Sinter sleeve bearing
Starting torque at 25°C	[Ncm]	< 0,2
Fastening torque mounting nut	[Ncm]	max. 150

Other Data

Housing material		steel
Shaft material		stainless steel
Terminals		stranded wire (3xAWG26)
Mounting parts, included in delivery		2 x hex nut, lock washer
Admiss. operating temperature	[°C]	-40 ... +105
Weight	[g]	15

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Options and Order Description

Description	Series	Options	
Hall effect potentiometer without stop	MP1613		
Shaft length Standard 21 mm Special length e.g. 15 mm		- A15	
Shaft diameter Standard 6 mm Special shaft diameter e.g. 5 mm			- DM5
Example Order description, standard version	MP1613		
Example Order description, special version	MP1613	A15	DM5

Please ask for more options.
Standard version from stock.

Our speciality are custom solutions, for reasonable prices even for small series

Special shaft dimensions, sealed housing, mounting of gear wheels and other mechanical parts, assembling of cables and connectors.

Please note

All the specifications and information in this datasheet can not consider the special demands that are caused by the application. Because of this, they are no general description of the properties of the product. Please consider also our detail specifications.

17. September 2009. All specifications are subject to change without notice.