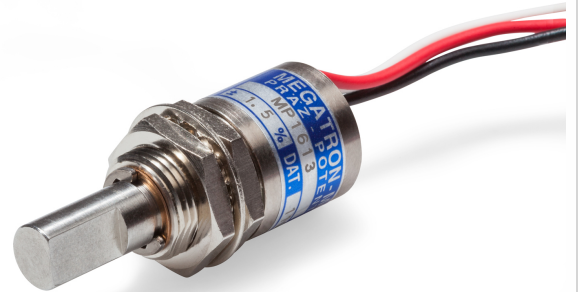


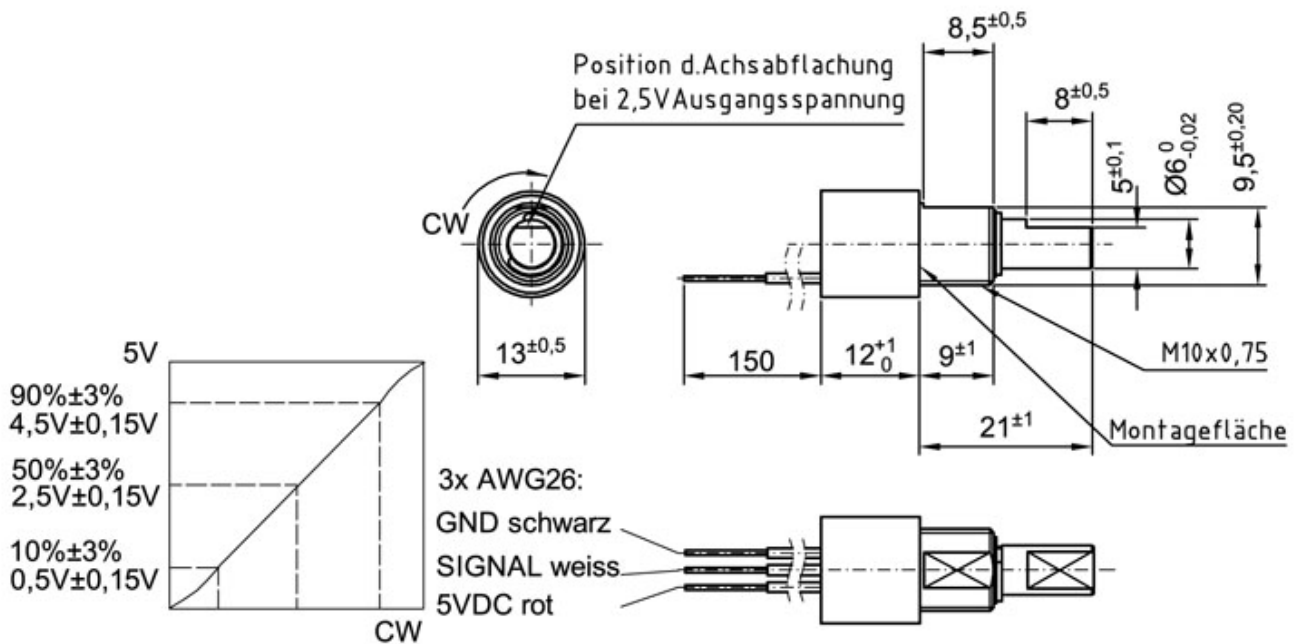
## Series MP1613 / Contactless Potentiometer

- 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

## Series MP1613 / Contactless Potentiometer

### 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 <sub>b</sub> )	[V]	5V DC ± 10%
Power consumption	[mA]	6
Load resistance	[kOhm]	> 100
Linear range of output voltage	[%U <sub>b</sub> ]	10 ... 90

### Mechanical Data

Mechanical angle	[°]	360 ohne Stop
Maximum rotational speed	[rpm]	400
Life time	[Udr.]	50 x 10 <sup>6</sup>
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

# Series MP1613 / Contactless Potentiometer

## Options and Order Description

Series MP1613	<b>MP1613</b>				
Other shaft length [mm]				Axx	
Other shaft diameter [mm]					DMxx

"bold print = standard option"

short-term stock types can be found on: <http://www.megatron.de/en/stocklists/angle-sensors/lagerliste.html>

(\*) = on request available for projects

23.02.2015