

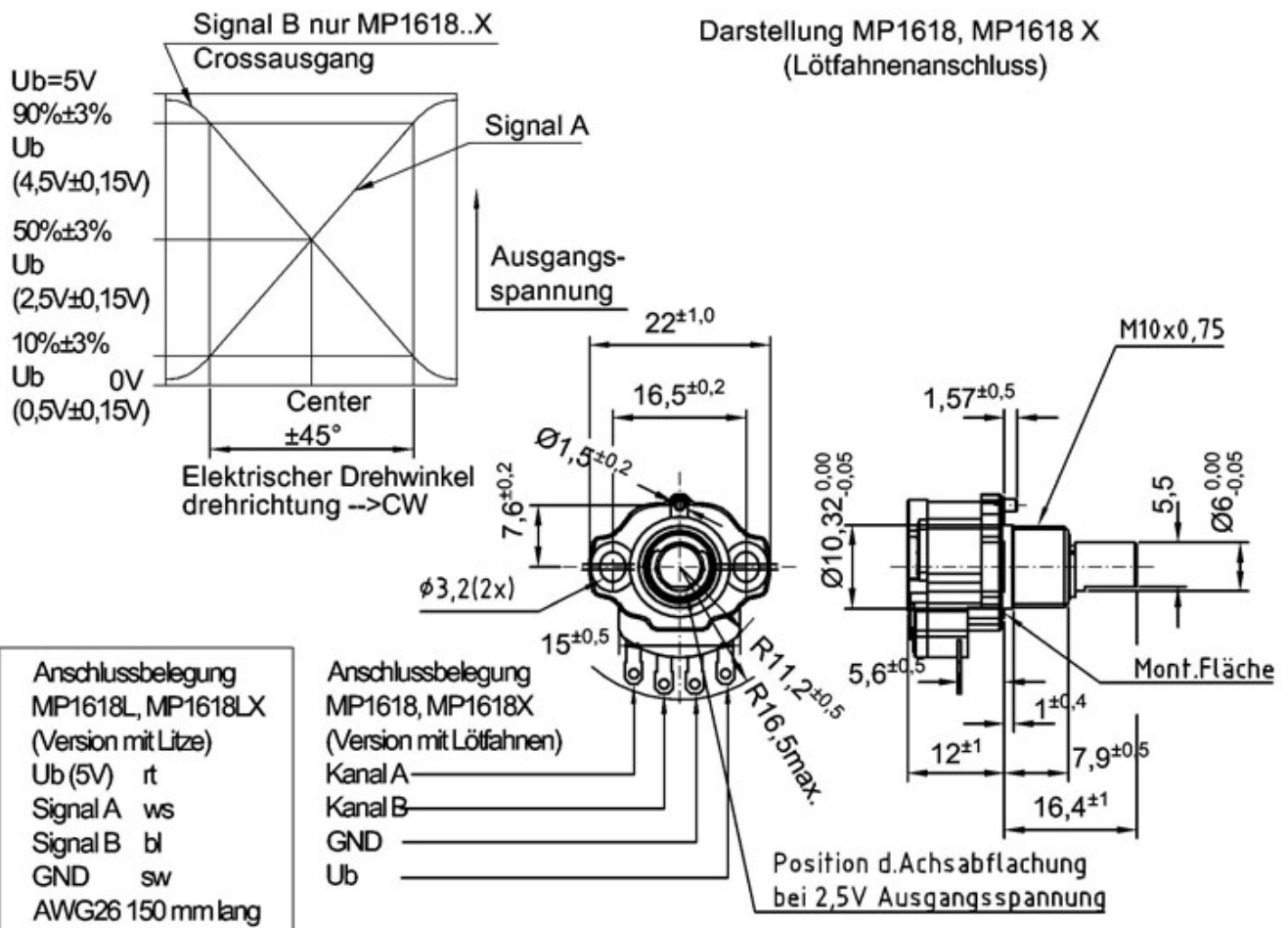
## Series MP1618, MP1618X, MP1618L, MP1618LX Contactless Potentiometer

- High lifetime by halleffect technology
- Redundant cross-signal-output
- Linearity tolerance  $\pm 1,5\%$
- With solder lugs or stranded wire
- Special angles on request

The MP1613 is a well priced and very compact encoder. It works contactless on hall effect principle and therefore it has as very high life time. It is available with a redundant cross output (Version X).



### Drawing



# Series MP1618, MP1618X, MP1618L, MP1618LX Contactless Potentiometer

## Electrical Data

Technology		hall sensor
Electrical angle	[°]	± 45
Independent linearity tolerance	[%]	± 1,5
Resolution		infinite
Output signal	[% Ub]	10 ... 90
Supply voltage (Ub)	[VDC]	5 ± 10%
Supply current Single- / Crossausgang	[mA}	7 / 14
Temperature drift	[%FS]	± 2,5
Zero point drift	[%FS]	± 0,5
Signal load	[kOhm]	> 100

## Mechanical Data

Mechanical angle	[°]	360 without stop
Maximum rotational speed	[rpm]	400
Life expectancy	[turns]	50 x 10 <sup>6</sup>
Starting torque	[Ncm]	< 0,2
Max. torque for fastening the mounting nut	[Ncm]	max. 150

## Other Data

Protection class (shaft and housing)		IP40
Operating temperature	[°C]	-40 ... + 105
Storage temperature	[°C]	-50 ... + 105
Bearing		Sinter-sleeve bearing
Housing material		plastic
Shaft material		stainless steel
Mounting parts (included in delivery)		2 x hex nut, lock washer
Weigth	[g]	approx. 15

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### Options and Order Description

Description	Options		
Hall effect sensor with solder lugs	MP1618		
Hall effect sensor with solder lugs and redundant cross signal output	MP1618X		
Hall effect sensor with stranded wire	MP1618L		
Hall effect sensor with stranded wire and redundant cross signal output	MP1618LX		
Shaft length (Standard = 16,4mm)		A ...	
Shaft diameter (Standard = 6mm)			DM ...
* Example order code standard version	MP1618		
** Example order code special version	MP1618	A15	DM5
*) Standard version	MP1618, shaft length 16,4mm, shaft diameter 6 mm		
***) Special version	MP1618, shaft length 15mm, shaft diameter 3 mm		

Please ask for more options.  
Standard version from stock

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

We offer:

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.

25. Juni 2007. All specifications are subject to change without notice.