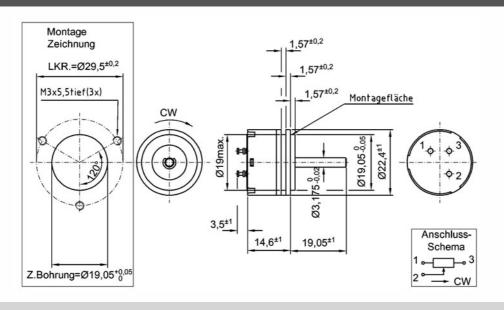
## Series MPAS20, MPAS21 - Conductive Plastic Potentiometer

- Body diameter 22 mm
- 2 precision ball bearings
- With or without mechanical stop
- Resistance values from 0,5 to 100 kOhm
- Life 10 Mio. revolutions
- Customized adaptations

The MPAS is a high precision potentiometer. Main application as a sensor in closed loop controls. Sealed shaft (IP65) and body (IP64) possible. Preference types from stock.





## Series MPAS20, MPAS21 - Conductive Plastic Potentiometer

Electrical Data	MPAS20	MPAS21
Electrical rotation angle	340° ±4°	320° ±4°
Resistance values	0,5 100 kOhm	
Resistance tolerance	±15% (±10%)	
Linearity tolerance, independent	±1% (±0,5%)	
Output smoothness	< 0,1%	
Power rating at $+70^{\circ}$ C (0W at $105^{\circ}$ C)	1 W	
Wiper current	10 $\mu$ A max. / 2 $\mu$ A recommended	
Insulation	1000 MOhm at 500 VDC	

Mechanical Data	MPAS20	MPAS21	
Mechanical rotation angle	360° without stop	$320^\circ \pm 5^\circ$ with stop	
Max. rotational speed	400 rpm		
Life	10 x 10 <sup>6</sup> revolutions		
Starting torque	0,2 Ncm		
Stopper strength		60 Ncm	

Environmental Specifications / Materials		
Protection class shaft sealing, optional	IP65	
Operating temperature	-55 +105 °C	
Housing material	plastic	
Bearing	2 precision ball bearings	
Shaft material	stainless steel	
Connection	soldering pins	
Mounting parts	3 fixing clambs with screws M3x0,5 (included in delivery)	
Weight	20 g	



Order code				
Description	Options			
Without Stop With Stop	MPAS 20 MPAS 21			
Res [Ohm]	R500 <b>R1K</b> R2K <sup>(</sup> <b>R5K</b> <b>R10K</b> R20K R50K R100	ი < < ი < ი		
Resistance tolerance		<b>W15%</b> W10% <sup>(*)</sup>		
Independent linearity [± %]		L1% L0,5% (*)		
Sealing ring in the bushing (*)		D (*)		
short-term stock types can be found on: <u>http://www.megatron.de/en/stocklists/linear-sensors/lagerliste.html</u> bold print = standard option (*) = on request available for projects				
For higher quantities or on-going demand, additional options are available as described below				

For example:

- Other resistance values
- Mounting of cables and connectors
- Multi ganged versions for redundancy
- Special shaft design

## For technical advice, projects, samples, questions about pricing, delivery times and availability please contact us

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