

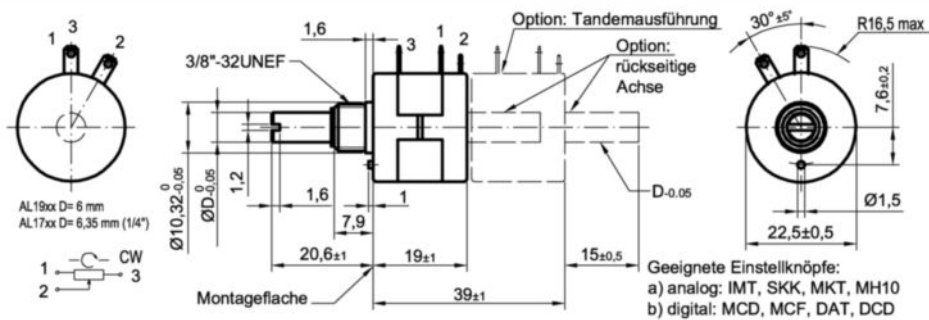
Series HH17xxM, HH19xxM / Multiturn Hybrid Potentiometer

- Body diameter 22 mm, with brass bushing
- Resistance values from 1 kOhm to 100 kOhm
- Linearity tolerance $\pm 0,25\%$ ($\pm 0,1\%$)
- Various options like:
 - tandem or multi ganging,
 - sealing ring (IP65),
 - reinforced bearings for radial shaft load
- Custom specific adaptations

For applications which demands a high life expectancy and a low noise. Position sensor in closed loop control systems. Preference types from stock.



Drawing (with optional tandem version and rear shaft extension)



Dimensions in mm

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Electrical Data		3 turn	5 turn	10 turn
Technology		hybrid		
Electrical angle	[°]	1080 ± 5	1800 ± 5	3600 ± 5
Resistance values	[kOhm]	1 ... 50	1 ... 50	2 ... 100
Resistance tolerance	[%]	± 10 (± 5)		
Independent Linearity Tolerance	[%]	± 0,5	± 0,35 (± 0,2)	± 0,25 (± 0,1)
Output smoothness (relating to feeding voltage)	[%]	k.A.	0,05	0,015
Power at + 40°C (0W at 125°C)	[W]	0,5	1	2
Wiper current recomm. / max.	[µA]	2 / 10		
Insulation Resistance	[MOhm]	100 at 1000 VDC		

Mechanical Data		3 turn	5 turn	10 turn
Mechanical rotation angle	[°]	1080 + 10	1800 + 10	3600 + 10
Maximum rotational speed	[rpm]	40		
Life time	[turns]	1,5 x 10 ⁶	2,5 x 10 ⁶	5 x 10 ⁶
Starting torque	[Ncm]	0,5		
Stopper strength	[Ncm]	35		
Max. fastening torque mounting nut	[Ncm]	150		

Other Data		
Protection class of optional shaft sealing		IP65
Operating temperature	[°C]	-55 ... + 105
Bearing		sleeve bearing
Housing material		glass-fiber reinforced Nylon
Shaft material		stainless steel
Material bushing		brass
Terminals		gold-plated solder lugs for connector acc. DIN46247 part 3
Mounting parts, included in delivery		hexnut, tooth washer
Weight	[g]	22

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Order code

Beschreibung	Optionen
3-turn; 6,35 mm shaft; metal bushing (*)	HH1703M (*)
3-turn; 6 mm shaft; metal bushing (*)	HH1903M (*)
5-turn; 6,35 mm shaft; metal bushing (*)	HH1705M (*)
5-turn; 6 mm shaft; metal bushing (*)	HH1905M (*)
10-turn; 6,35 mm shaft; metal bushing	HH1710M
10-turn; 6 mm shaft; metal bushing	HH1910M
Resistance value [Ohm]	R500 (*) R1K R2K (*) R5K R10K R20K (*) R50K (*) R100K (*)
Rear shaft, length [mm] (*)	RA.. (*)
Special diameter of the rear shaft [mm] (*)	RADM (*)
Resistance tolerance	W10% W5% (*)
Independent linearity [± %]	
10-turn	L0,25%
5-turn	L0,35% (*)
10-turn optional 0,15% (*)	L0,1% (*)
5-turn optional 0,2% (*)	L0,2% (*)
Center tap (voltage type) (*)	CT (*)
Special shaft length [mm] (*)	A.. (*)
Special shaft diameter [mm] (*)	DM (*)
Sealing ring in the bushing (*)	D (*)

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

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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Series HH17xxM, HH19xxM / Multiturn Hybrid Potentiometer

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

Special shaft dimensions, o-ring for shaft sealing, sealed housing, special electrical and mechanical angles, tighter tolerances, center tapping. Mounting of gear wheels and other mechanical parts, assembling of cables and connectors. Reinforced bearing depending on the application.

Please note

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. Please also consider our detailed specifications. (Available on request)

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