

Series AL17xxM, AL19xxM - Multiturn Wirewound Potentiometer

Electrical Data	3 turn	5 turn	10 turn
Electrical rotation angle	1080° ± 5°	1800° ± 5°	3600° ± 5°
Resistance value	20 ... 50kOhm	20 ... 50kOhm	20 ... 100kOhm
Resistance tolerance	± 5% (± 1%)		
Linearity tolerance	± 0,25% (± 0,2%)	± 0,25% (± 0,15%)	± 0,25% (± 0,1%)
Noise (ENR)	< 100 Ohm		
Power rating at + 70°C (0W at 105°C)	0,5 W	1 W	2 W
Wiper current	35 mA max. / < 0,02 mA recomb.		
Insulation	1000 MOhm at 500 VDC		
Dielectric strength	1000 VAC (1min.)		

Mechanical Data	3 turn	5 turn	10 turn
Mechanical rotation angle	1080° + 10°	1800° + 10°	3600° + 10°
Rotational speed	40 rpm max.		
Live (n x 90% elec. angle)	300.000 rev.	500 000 rev.	1 x 10 ⁶ rev.
Starting torque	< 1 Ncm		
Stopper strength	< 35 Ncm		
Max. torque mounting nut	< 150 Ncm		

Other Data	
Protection class	IP40 Standard IP65 shaft sealing, optional
Operating temperature	-55° C ... + 105° C
Bearing	sleeve bearing, brass
Housing material	glass-fiber reinforced nylon
Shaft material	stainless steel
Connection	gold-plated solder lugs for connector like AMP series Faston 110, Part-No. 42236-1
Mounting parts	hex-nut, inner tooth washer (included in delivery)
Weight	24 g

Windings, Resolution										
Resistance value	100	200	500	1k	2k	5k	10k	20k	50k	100k
AL1705/1905 winding	1240	1560	2000	2510	2400	3200	3900	4800	5500	--
AL1710/1910 windings	2100	2480	3300	4000	5020	5000	6400	7800	10100	11000

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Order code

Beschreibung	Optionen
3-turn; 6,35 mm shaft; metal bushing	AL1703M
3-turn; 6 mm shaft; metal bushing	AL1903M
5-turn; 6,35 mm shaft; metal bushing	AL1705M
5-turn; 6 mm shaft; metal bushing	AL1905M
10-turn; 6,35 mm shaft; metal bushing	AL1710M
10-turn; 6 mm shaft; metal bushing	AL1910M
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	W5% W1% (*)
Independent linearity [± %]	L0,25%
10-turn optional 0,1% (*)	L0,1% (*)
5-turn optional 0,15% (*)	L0,15% (*)
3-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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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.

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