

Precision - Multi-Turn - Wirewound - Potentiometer DMG18 + -19



Inch or metric version, solder connection, 3- turn / 5- turn / 10-turn, for manual adjustment

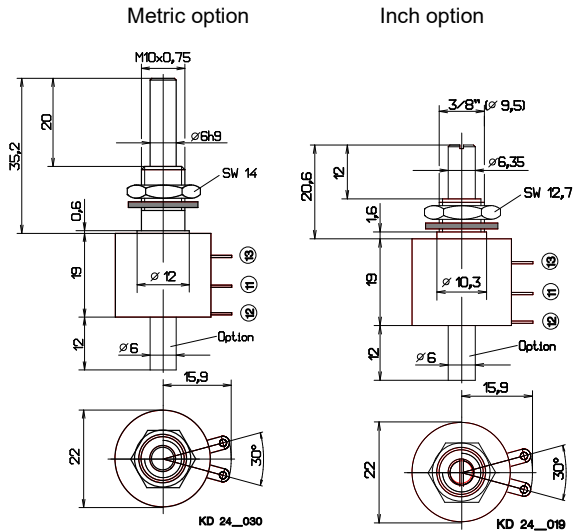
The 3- turn, 5- turn and 10-turn precision potentiometers of the series DMG 18 are characterized by a high resolution and low tolerance resistor elements. These low-cost potentiometers are especially well suited for setpoint devices.

mechanical data

- 1.1 housing..... : reinforced glass fibre plastic
- 1.2 shaft..... : metal; Ø according to table
- 1.3 bearing..... : sliding bearing
- 1.4 resistor element..... : according to table
- 1.5 slider tap / wiper tap..... : single tap
- 1.6 housing protection class..... : IP 40
- 1.7 type of connection..... : solder connection
- 1.8 mounted by : according to table
- 1.9 rotation speed..... : max. 60 rpm
- 1.10 torque..... : till 0,8 Ncm (IP65 till 2,5 Ncm)
- 1.11 rotation load life..... : according to table

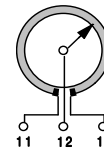
electrical data

- 2.1 resistance values (standard)..... : 1, 2, 5, 10 K-Ohm
- 2.2 resistance range..... : 1 K... 100 K-Ohm
- 2.3 resistance tolerance..... : precision wire $\pm 5\%$, hybrid $\pm 10\%$
- 2.4 linearity tolerance..... : $\pm 0,25\%$
- 2.5 insulation resistance : 1000 M-Ohm
- 2.6 test voltage..... : 1000 V
- 2.7 power rating..... : according to table
- 2.8 slider load current..... : precision wire max. 20mA, hybrid element max. 10mA
- 2.9 temperature range..... : -25°C till $+125^{\circ}\text{C}$
- 2.10 temperature coefficient..... : precision wire 50 ppm/ $^{\circ}\text{C}$, hybrid 100 ppm/ $^{\circ}\text{C}$



*1 Standard Resistance with Hybrid		
3-turn	5-turn	10-turn
3 K	5 K	10 K
1,5 K	2,5 K	5 K
0,3 K	0,5 K	1 K

Option	Type	Turn (rotation angle)	Rotation load life	Watt
DMG18 Ze me resistor element precision wire Metric version Maintenance-free sliding bearing shaft Ø 6 mm central fixing M10 x 0,75	DMG18 / 10 Ze Lt me	10 – turn (3600°)	1 x 10 ⁶	2,0
	DMG18 / 05 Ze Lt me	5 – turn (1800°)	5 x 10 ⁵	1,5
	DMG18 / 03 Ze Lt me	3 – turn (1080°)	3 x 10 ⁵	1,0
DMG18 Ze Hv zo resistor element precision wire Inch version shaft Ø 6,35 central fixing 3/8"	DMG18 / 10 Ze Lt zo	10 – turn (3600°)	1 x 10 ⁶	2,0
	DMG18 / 05 Ze Lt zo	5 – turn (1800°)	5 x 10 ⁵	1,5
	DMG18 / 03 Ze Lt zo	3 – turn (1080°)	3 x 10 ⁵	1,0
DMG19 Ze me resistor element Hybrid Metric version Maintenance-free sliding bearing shaft Ø 6 mm central fixing M10 x 0,75	DMG19 / 10 Hy Ze Lt me	10 – turn (3600°)	5 x 10 ⁶	2,0
	DMG19 / 05 Hy Ze Lt me *1	5 – turn (1800°)	5 x 10 ⁶	1,5
	DMG19 / 03 Hy Ze Lt me *1	3 – turn (1080°)	5 x 10 ⁶	1,0
DMG19 Ze Hv zo resistor element Hybrid Inch version shaft Ø 6,35 central fixing 3/8"	DMG19 / 10 Hy Ze Lt zo	10 – turn (3600°)	5 x 10 ⁶	2,0
	DMG19 / 05 Hy Ze Lt zo *1	5 – turn (1800°)	5 x 10 ⁶	1,5
	DMG19 / 03 Hy Ze Lt zo *1	3 – turn (1080°)	5 x 10 ⁶	1,0



terminal plan	
point	function
11	winding
12	slider
13	winding

Options

terminal wires
protection class IP67 shaft-side
(for metric version only)

For your information!

Please note that because of missing material availability the wiper could be C7521 material instead of C7701.

*1 A 10-turn DMG rebuilt to 5- or 3-turn. Due to the rebuilding the total resistance is reduced by the number of turns.
Hv = manual adjustment
Hy = resistor element hybrid (not available in 2K-Ohm)
me = thread of central fixing and shaft metric
zo = thread of central fixing and shaft in inch

Option	slide moment
Internal slip coupling *2	1,8 to 2,2 Ncm

*2 full inspection of torque

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