

Precision - Wirewound - Potentiometer DP18 D2 St

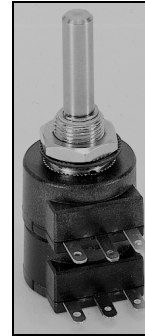
Multiple version, single tap, plug connection, sliding bearing



The potentiometer DP18 has a reinforced glass fibre plastic housing of high thermal resistance and hardness. It can be additionally encapsulated and then achieves the protection class of IP 65.

The potentiometer can be supplied with a shaft led through on the rear side.
For fast rotations and high axial loads we recommend our type: DP18 St V02 with needle bearing and double slider tapper.

The resolution of 0,15% at 5 K-Ohm / 330° is lower than for our types DP25, DP113 or DP120 corresponding to the smaller housing diameter

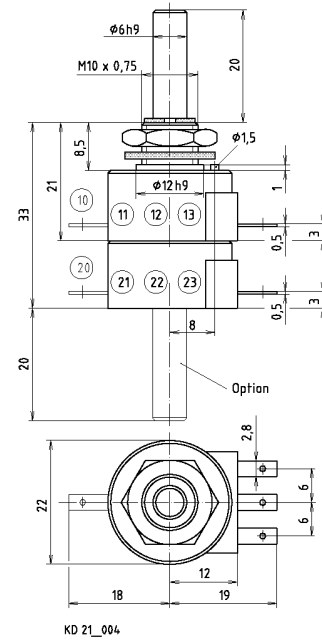


mechanical data

- 1.1 housing..... : reinforced glass fibre plastic
- 1.2 shaft..... : stainless steel $\phi 6^{h9}$
- 1.3 bearing..... : maintenance-free sliding bearing
- 1.4 resistor element..... : precision wire winding
- 1.5 slider tap / wiper tap..... : noble metal, single
- 1.6 housing protection class..... : IP 60
- 1.7 type of connection..... : blade terminal DIN 46342
- 1.8 mounted by..... : central fixing M10 x 0,75
- 1.9 mechanical rotation angle..... : 330° +2°, stops
- 1.10 electrical rotation angle..... : 330° -1°+2°
- 1.11 rotation speed..... : max. 60 rpm
- 1.12 torque..... : 1,0 to 2,0 Ncm
- 1.13 rotation load life..... : 5 x 10⁶ slider path (360°)
- 1.14 end-stop strength..... : 50 Ncm

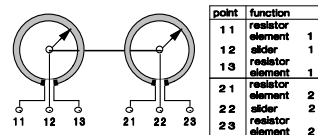
electrical data

- 2.1 resistance values, standard..... : 1, 2, 5, 10 K-Ohm $\pm 5\%$
- 2.2 resistance values,max.possible.. : 20 K-Ohm
- 2.3 resolution at 5 K-Ohm / 330°..... : 0,15%
- 2.4 max. starting / end resistance..... : 1% (of overall resistance => 1K)
- 2.5 linearity tolerance..... : $\pm 0,4\%$
- 2.6 insulation resistance..... : 20 M-Ohm
- 2.7 test voltage..... : 500 V, 50 Hz
- 2.8 operating voltage..... : max. 50 V
- 2.9 power rating..... : max. 1,5 Watt
- 2.10 slider load current..... : 1 mA (max., load life)
- 2.11 temperature range..... : -50°C till +100°C
- 2.12 temperature coefficient..... : 20 ppm/°C



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terminal plan



options

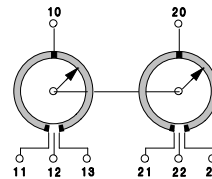
- short-circuit tracks
- centre taps
- resistance tolerance: $\pm 3\%$
- resistance tolerance: $\pm 1\%$
- shaft: special length, led through on the rear side
- slider throughrotation
- electrical angle of rotation max. 355°
- mechanical angle of rotation max. 360°
- protection class IP65, shaft-side
- protection class IP65* complete

accessories

- protective housing
- bellows coupling
- pin coupling
- microswitch
- scale 0 till 100
- rotary knob
- terminal wires

other types

- multiple version
- print connection
- needle bearing - shaft



terminal plan

point	function
10	centre tap
11	winding 1
12	slider 1
13	winding 1
20	centre tap
21	winding 2
22	slider 2
23	winding 2

* Potentiometer housing encapsulated, protection class IP65, connections are free.
Completely encapsulated potentiometers are supplied with cable and protective housing

Option
Centre tap – Dead Zone + 1,5° / - 1,5°
Centre tap – Dead Zone + 3° / - 3°
Centre tap – Dead Zone + 6° / - 6°
Shaft on both sides

Sheet #: Ke2121

Amendment/ Print: 01.08.13 / 13.08.13

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Subject to technical
amendments Form.#: 00000000