

A potentiometer for harsh industrial conditions. The noble metal winding provides the highest protection against environmental conditions. The multiple taper ensures a safe function. Available with solder connection as an option. Due to the ball bearing axial loads of 50 N can be taken up by continuous operation. The potentiometer is through-rotating but can also be provided with stops on request. To protect it against environmental influences the installation in a protective housing is recommended. Different adapter plates for attachment facilitate the installation at the place of use. Shifts with special lengths can be manufactured individually for single units.



mechanical data

- 1.1 housing..... : aluminium
- 1.2 shaft..... : stainless steel $\varnothing 6^{h9}$
- 1.3 bearing..... : ball bearing
- 1.4 resistor element..... : noble metal winding
- 1.5 slider tap / wiper tap..... : noble metal, multiple
- 1.6 housing protection class..... : IP 64
- 1.7 type of connection..... : clamp connection
- 1.8 mounted by..... : clamping claws
- 1.9 electrical rotation angle..... : 345°
- 1.10 mechanical rotation angle..... : standard throughrotation
- 1.11 rotation speed..... : max. 60 rpm
- 1.12 torque..... : 0,3 to 0,4 Ncm
(IP67: 0,8 to 1,2 Ncm)
- 1.13 rotation load life..... : 10×10^6 slider path (360°)
- 1.14 end-stop strength..... : 50 Ncm

electrical data

- 2.1 resistance values, standard..... : 1, 2, 5, 10 K-Ohm
- 2.2 resistance values,max.possible.. : 90 K-Ohm
- 2.3 resistance tolerance..... : $\pm 3\%$
- 2.4 lowest starting resistance..... : 0,05% of overall resistance
- 2.5 linearity tolerance..... : $\pm 0,3\%$
- 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. 3 Watt
- 2.10 slider load current..... : 1 mA (max., life)
- 2.11 temperature range..... : -50°C till $+100^\circ\text{C}$
- 2.12 temperature coefficient..... : 20 ppm/ $^\circ\text{C}$

options

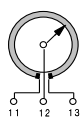
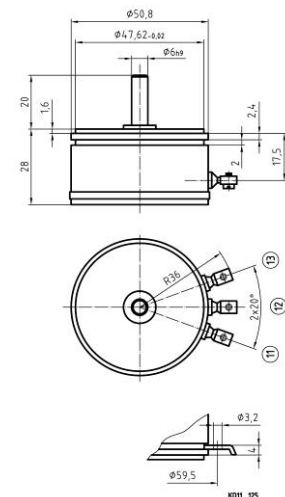
short-circuit tracks
centre tap
rotation angle, electrical and mechanical
torque 0,1 to 0,2 Ncm
resistance tolerance: $\pm 1\%$
shaft: special length, continuous
stops (rotation angle max. 350°)
slip coupling
protection class IP65
protection class IP67 with cable connection only

other types

multiple version
cable connection
integrated measuring transducer
0/4...20 mA

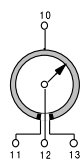
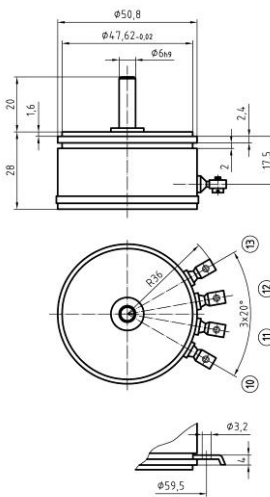
accessories

protective housing
adapter plate
bellows coupling
pin coupling
microswitch
rotary knob
scale



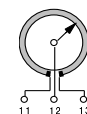
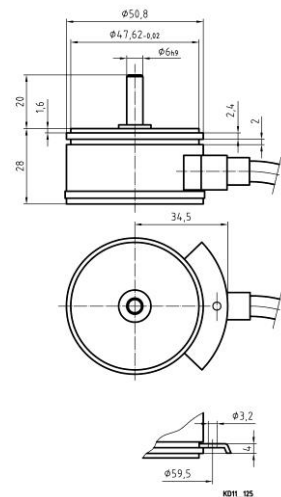
point	function
11	winding
12	slider
13	winding

DP120 Sy KL



point	function
10	centre tap
11	winding
12	slider
13	winding

DP120 Sy KL Mi



point	function	colour
11	winding	green
12	slider	white
13	winding	brown

DP120 Sy Ka

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