



PL20

Applications

- Readout potentiometer

Features

- Compact dimensions
- Elevated torque
- Protection class IP67

Options

- Other nominal resistances
- Special electrical angles
- Without elevated torque

Electrical Data		
Nominal resistance	kOhm	5
Resistance tolerance	%	±20
Independent linearity	% of meas.range	±3
Electrical angle	°	315
Angle tolerance (electrical)	°	±2
Temperature coefficient of the voltage divider	ppm/°C	50
Recommended wiper current	µA	max. 1
Max. wiper current in case of malfunction	mA	10
Power rating P	W/40°C	max. 0.5
Min. life (electrical)	movements	1 Mio.

Mechanical Data		
Mechanical range	°	320
Angle tolerance (mechanical)	°	±2
Torque	Ncm	2...6
Min. life (mechanical)	movements	1 Mio.
Operating temperature	°C	-25 ... +85
Storage temperature	°C	-40 ... +85
Protection class		IP67*
End-stop strength	Ncm	max. 70
Draw out force of the shaft	N / 1min	min. 40
Draw out force of the wires	N / 1min	min. 50
Permitted torque for nut fixation	Ncm	max. 75

Standards		
Insulating resistance (500 VDC, 1bar, 2s)	GOhm	8
Dielectric strength (VAC, 50Hz, 1min, 1bar)	kV	1.5
Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz)	g	10
Shock (half sine pulse, 7 ms)	g	50

Errors and omissions excepted. Subject to change without notice. / State: 05.05.20

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* The wires on customer side have to be sealed to fulfill the protection class of IP67.