



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	5	kOhm
Resistance tolerance	±20	%
Independent linearity	±3	% of meas. range
Electrical angle	330	°
Angle tolerance (electrical)	±2	°
Temperature coefficient of the voltage divider	50	ppm/° C
Recommended wiper current	max. 1	µA
Max. wiper current in case of malfunction	10	mA
Power rate P	max. 0.5	W/40° C
Min. life (electrical)	500' 000	cycles
Mechanical Data		
Mechanical angle	320	°
Angle tolerance (mechanical)	±2	°
Torque	2...6	Ncm
Min. life (mechanical)	500' 000	cycles
Operating temperature	-40 ... +105	° C
Storage temperature	-40 ... +105	° C
Protection class	IP67	
End-stop strength	max. 70	Ncm
Draw out force of the shaft	min. 40	N/1min
Draw out force of the wires	min. 50	N/1min.
Permitted torque for nut fixation	max. 75	Ncm
Standards		
Insulating resistance (500 VDC, 1bar, 2s)	8	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	1.5	kV
Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz)	10	g
Shock (half sine pulse, 7 ms)	50	g

Technische Änderungen und Irrtum vorbehalten / Stand: 23. Mai 2007

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