

POTENTIOMETRE PL240



PL240

Applications

- Position detection on dentist's chair
- Miter saw

Features

- Small dimensions
- 0.5 Mio. cycles
- Linearity $\pm 2\%$
- Very good resolution, better 0.1°

Options

- Custom shafts design
- Custom bushing design
- Other electrical angles between 20° und 270°

Electrical Data

Nominal resistance	1/5/10	kOhm
Resistance tolerance	±20	%
Independent linearity	±2	% of meas. range
Electrical angle	270	°
Temperature coefficient of the voltage divider	30	ppm/°C
Recommended wiper current	max. 1	µA
Max. wiper current in case of malfunction	10	mA
Power rating P	0.5	W/40°C
Min. life (electrical)	500'000	cycles

Mechanical Data

Mechanical range	300	°
Torque	max. 1	Ncm
Min. life (mechanical)	500'000	cycles
Operating temperature	-25 ... +125	°C
Storage temperature	-40 ... +125	°C
Protection class	IP50	

Standards

Insulating resistance (500 VDC, 1bar, 2s)	10	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

Subject to change
without notice
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COMPAUT
Tel: 04 50 57 07 91
Fax: 04 50 57 21 45

campaut@wanadoo.fr

CO
NTELEC