

POTENTIOMETRE RL



RL

Applications

Features

- Compact dimensions
- Design flexibility
- 100 Mio. movements
- Excellent linearity up to $\pm 0.05\%$
- Very good resolution, better 0,05mm

Options

- Nominal resistances between 1KOhm and 20KOhm
- Longer push rod
- Redundancy
- Operating temperature -40 ... +125°
- Customer specific cable / wires

wires

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Subject to change
without notice
State: 17-March-2006

CONTELEC

Electrical Data		
Nominal resistance	5	kOhm
Resistance tolerance	± 20	%
Independent linearity	$\pm 0.2/0.1/0.1/0.1/0.05/0.05/0.05/0.05/0.05$	% of meas. range
Electrical travel	25/50/75/100/125/150/200/250/300	mm
Repeatability	0.05	mm
Temperature coefficient of the voltage divider	5	ppm/°C
Recommended wiper current	max. 1	μA
Max. wiper current in case of malfunction	10	mA
Power rating P	max. 0.5	W/40°C
Min. life (electrical)	100 Mio.	movements
Electrical connection	cable 3pol AWG24	

Mechanical Data		
Mechanical travel	25/50/75/100/125/150/200/250/300	mm
Adjusting force of the push rod	max. 0.5	N
Min. life (mechanical)	100 Mio.	movements
Operating temperature	-30 ... +100	°C
Storage temperature	-50 ... +120	°C
Protection class	IP67	

Standards		
Insulating resistance (500 VDC, 1bar, 2s)	10	GOhm
Dielectric strength (VAC, 50Hz, 1min, 1bar)	700	V
Vibration (Amax = 0.75mm, f = 30 ... 2000 Hz)	20	g
Shock (half sine pulse, 7 ms)	50	g