



PL310

Applications

- Valve controls
- Joysticks / Master switches

Features

- Small dimensions
- Synchro flange
- Sintered bronze bearing
- Design flexibility
- 5 Mio. cycles
- Excellent linearity, up to $\pm 0.25\%$
- Very good resolution better $0,1^\circ$

Options

- Resistance tolerance $\pm 10\%$
- Independent linearity $\pm 0.25\%$
- Custom electrical angles and switch functions available
- Mechanical end stops
- Protection class IP65
- Custom shaft design
- Custom housing design
- Ball bearings

Electrical Data

Nominal resistance	kOhm	1/5/10
Resistance tolerance	%	± 20
Independent linearity	% of meas. range	± 1
Electrical angle	$^\circ$	340
Repeatability	$^\circ$	max. 0.1
Temperature coefficient of the voltage divider	ppm/ $^\circ\text{C}$	50
Recommended wiper current	μA	max. 1
Max. wiper current in case of malfunction	mA	10
Power rating P	W/40 $^\circ\text{C}$	max. 0.5
Min. life (electrical)	cycles	10 Mio.

Mechanical Data

Mechanical range	$^\circ$ (continuous)	360
Torque (IP54)	Ncm	max. 0.7
Min. life (mechanical)	cycles	5 Mio.
Max. permitted axial shaft load	N	1
Max. permitted radial shaft load	N	1
Operating temperature	$^\circ\text{C}$	-25 ... +85
Storage temperature	$^\circ\text{C}$	-40 ... +105
Protection class		IP54

Standards

Insulating resistance (500 VDC, 1bar, 2s)	GOhm	10
Dielectric strength (VAC, 50Hz, 1min, 1bar)	kV	1
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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