



## PL290

### Applications

- Electrical servo drive
- Rehabilitation equipment

### Features

- Small dimensions
- 0.5 Mio. cycles
- Very good resolution, better 0,1°
- Linearity  $\pm 2\%$

### Options

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

### Electrical Data

Nominal resistance	kOhm	1/5/10
Resistance tolerance	%	$\pm 20$
Independent linearity	% of meas. range	$\pm 2$
Electrical angle	°	270
Temperature coefficient of the voltage divider	ppm/°C	50
Recommended wiper current	$\mu A$	max. 1
Max. wiper current in case of malfunction	mA	10
Power rating P	W/40°C	max. 0.5
Min. life (electrical)	cycles	1 Mio.

### Mechanical Data

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

### Standards

Insulating resistance (500 VDC, 1bar, 2s)	GOhm	10
Dielectric strength (VAC, 50Hz, 1min, 1bar)	kV	1.5
Vibration ( $A_{max} = 0.75mm$ , $f = 30 \dots 2000$ Hz)	g	10
Shock (half sine pulse, 7 ms)	g	50

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

Contelec AG  
 Portstrasse 38  
 CH-2503 Biel/Bienne  
 Phone +41 (0)32 3665600  
 Telefax +41 (0)32 3665604  
 sales@contelec.ch

**CONTELEC**  
 A company of the Siedle-Group