



## PC20

### Applications

- Readout potentiometer

### Features

- Compact dimensions
- Elevated torque
- High temperature range
- Protection class IP67

### Options

- Other nominal resistances
- Electrical angles between 30° and 315°
- Without elevated torque

Electrical Data		
Nominal resistance	20	kOhm
Resistance tolerance	±20	%
Independent linearity	±2.5	% of meas. range
Electrical angle	315	°
Angle tolerance (electrical)	±3	°
Temperature coefficient of the voltage divider	100	ppm/°C
Recommended wiper current	max. 1	µA
Max. wiper current in case of malfunction	100	mA
Power rating P	max. 0.75	W/40°C
Min. life (electrical)	50'000	cycles

Mechanical Data		
Mechanical range	320	°
Angle tolerance (mechanical)	±2	°
Torque	2...6	Ncm
Min. life (mechanical)	50'000	cycles
Operating temperature	-25 ... +125	°C
Storage temperature	-55 ... +125	°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

Errors and omissions excepted. Subject to change without notice. / State: 18.04.09

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

\* The wires on customer side have to be sealed to fulfill the protection class of IP67.