



# Carbon Rotary Potentiometers - 20 mm size

## Singles with Rotary Switch

Types  
**CIP20C IL**  
**P20C IL**  
**CIP20C 2IL**  
**P20C 2IL**

### Mechanical data

Rotation angle:  $300^\circ \pm 5^\circ$   
 Operating torque:  $0.4 \div 1.5$  Ncm  
 Permissible torque at end stop: 80 Ncm max  
 Permissible axial spindle load: 100 N  
 (5 sec max)  
 Tap: Z2 at 52% of rotation

### Rotary switch:

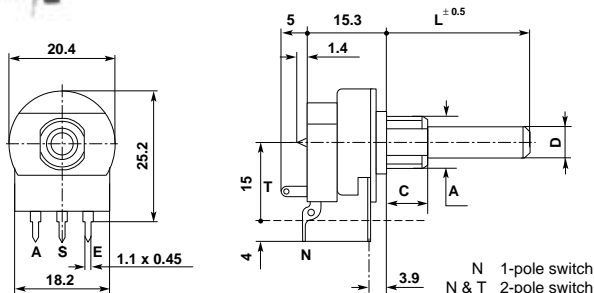
Switching angle:  $30^\circ \pm 5^\circ$   
 Operating torque:  $2 \div 5$  Ncm  
 Weight, std. spindle: ~ 13 g



### Electrical data

Rated dissipation @ 40°C: 0.4 W linear law  
 0.2 W non-linear law  
 Limiting element voltage: 500 VDC  
 Insulation resistance:  $\geq 5$  GΩ  
 Insulation voltage: 1000 VAC  
 Rated resistance: E3 Series; optional E6 Series  
 • linear law: 100R to 4M7  
 • non-linear law: 1K0 to 2M2  
 Tolerance on rated resistance:  
 • 100R to 1M0:  $\pm 20\%$   
 • over 1M0:  $\pm 30\%$   
 • optional (1K0 to 1M0):  $\pm 10\%$   
 Resistance law: A, B, C, F, S, T, X  
 • with tap: A2, B2

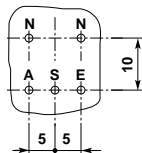
**Switch:** 1-pole (SPST); 2-pole (DPST)  
 Breaking capacity: 1.5 A-250 VAC resist. load  
 5A - 24 VDC



### Standard spindle & bush

L = 50 mm, plastic, F1 type  
 D = 6 mm  
 A = M10x0.75, plastic, KC type  
 C = 8 mm

### CIP20C 2IL



viewed on component side

### Types

<b>CIP20C IL</b>	1-pole switch - P.c. terminations
<b>P20C IL</b>	1-pole switch - Solder tag terminations
<b>CIP20C 2IL</b>	2-pole switch - P.c. terminations
<b>P20C 2IL</b>	2-pole switch - Solder tag terminations

### Spindle and bushing variations

D mm	A mm	Available types		
		Bush	Plastic Spindle	Metal Spindle
6	M10x0.75	KC, C, CE, CEBS	Fixed Plug-in	Fixed
4	M10x0.75 M7x0.75	C, CE C, CE	Fixed	Fixed

Spindle and bushing details, chassis piercing: see p. 108 to 111  
 Normalised spindles: see p. 112