



Carbon Rotary Potentiometers - 16 mm size

Mounting Bushes - M7

Type		Chassis piercing		C - CZ		
				std.	option.	
C	Metal				6	9
CE	Metal				6	9
CEP	Metal				4.5	8
CZ	Metal				5	8 12
KZ	Plastic					

Available bushes are specified on the pages describing each potentiometer type.

Potentiometers with bush are supplied with a nut, not mounted.



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Mounting Bushes - M10 & M9

Type		Chassis piercing	CZ		
			std.	option.	
CZ	Metal			8	5 12
KZ	Plastic				
ZKC	Metal				
KC	Plastic				
C9	Plastic				

Available bushes are specified on the pages describing each potentiometer type.

Potentiometers with bush are supplied with a nut, not mounted.



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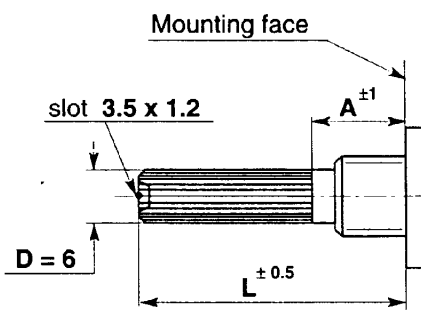
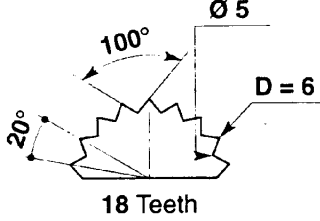
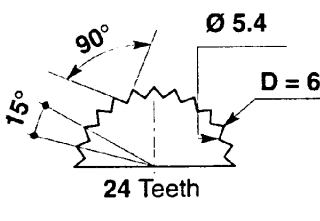
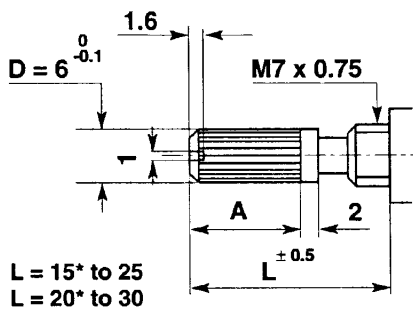
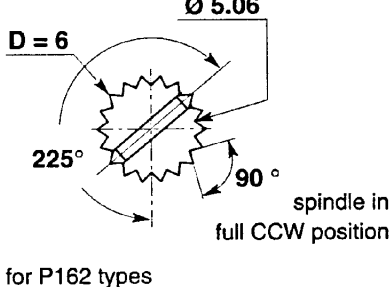
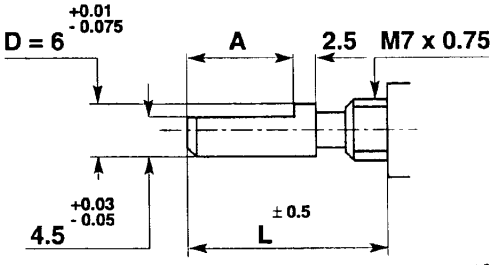
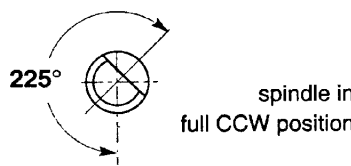
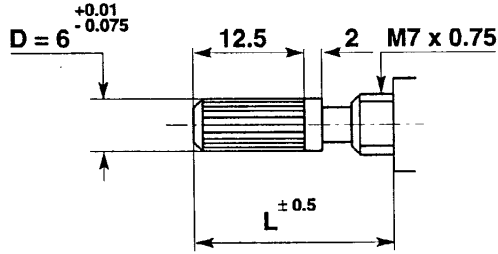
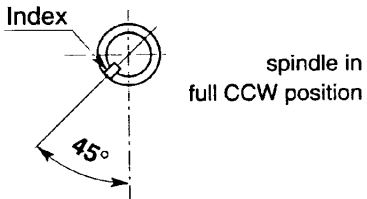
Spindle variations - 6 mm diameter	Available types	
	Plastic	Metal
<p>$D = 6^{+0.01}_{-0.075}$</p> <p>Mounting face</p> <p>$L \pm 0.5$</p> <p>L = 15 to 60</p>	F1	M1
<p>$D = 6^{+0.01}_{-0.075}$</p> <p>12</p> <p>$4^{0}_{-0.1}$</p> <p>$L \pm 0.5$</p> <p>spindle in full CCW position</p> <p>205°</p> <p>Optional 210° Optional 225°</p> <p>standard</p> <p>L = 15 to 60</p>	F2	M2
<p>$D = 6^{+0.01}_{-0.075}$</p> <p>A</p> <p>$5^{+0.03}_{-0.05}$</p> <p>$L \pm 0.5$</p> <p>spindle in full CCW position</p> <p>205°</p> <p>Optional 210° Optional 225°</p> <p>standard</p> <p>A = 15 - L = 20 to 60 A = 10 - L = 15 to 60</p>	F3 A = 15	M3 A = 15
	F4 A = 10	M4 A = 10
<p>$D = 6^{+0.01}_{-0.075}$</p> <p>A</p> <p>$4.6^{+0.03}_{-0.05}$</p> <p>$L \pm 0.5$</p> <p>spindle in full CCW position</p> <p>205°</p> <p>A = 10 - L = 15 to 60 A = 15 - L = 20 to 60 A = 20 - L = 25 to 60</p>	F10 A = 10	M10 A = 10
	F11 A = 15	M11 A = 15
	F12 A = 20	M12 A = 20

The orientation of the flat indicated in the drawings is for plastic spindles only. The optional orientations of 210° and 225° place the flat in horizontal position (zero degrees) at half of rotation angle, respectively in potentiometers with 300° and 270° of rotation angle.

For metal spindles, unless specified in the order, the orientation of the flat may change in each potentiometer.



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Spindle variations - 6 mm diameter		Available types	
		Plastic	Metal
 <p>Mounting face slot 3.5 x 1.2 D = 6 L ± 0.5 A ± 1</p>	 <p>Ø 5 D = 6 100° 20° 18 Teeth</p>	F5 18 teeth	NOT
		 <p>Ø 5.4 D = 6 90° 15° 24 Teeth</p>	F6 24 teeth
 <p>D = 6 1.6 M7 x 0.75 A L ± 0.5 2 18 teeth</p>	 <p>Ø 5.06 D = 6 225° 90° spindle in full CCW position</p>		F31 A = 7.5
		A = 7,5 L = 15* to 25 A = 12,5 L = 20* to 30	F32 A = 12.5
 <p>D = 6 4.5 A L ± 0.5 2.5 M7 x 0.75</p>	 <p>225° spindle in full CCW position</p>	F33 A = 7	M33 A = 7
		A = 7 L = 15* to 25 A = 12 L = 20* to 30	F34 A = 12
 <p>D = 6 12.5 2 M7 x 0.75 L ± 0.5 40 teeth</p>	 <p>Index 45° spindle in full CCW position</p>	F35	M35
		L = 20* to 30	30° for P162 types

* Bush lengths: 4,5 mm or 5 mm.

Available spindles are specified on the pages describing each potentiometer type.



Carbon Rotary Potentiometers - 16 mm size

Spindle variations - 4 mm diameter	Available types	
	Plastic	Metal
<p>$D = 4 \begin{matrix} +0.03 \\ -0.05 \end{matrix}$</p> <p>$L \pm 0.5$</p> <p>$L = 8 \text{ to } 60$</p>	F21	M21
<p>$D = 4 \begin{matrix} +0.03 \\ -0.05 \end{matrix}$</p> <p>$A$</p> <p>$L \pm 0.5$</p> <p>$3 \pm 0.05$</p> <p>$A = 8.5 \quad L = 11 \text{ to } 60$ $A = 13.5 \quad L = 16 \text{ to } 60$</p> <p>spindle in full CCW position</p> <p>standard optional</p> <p>90°</p>	F22 A = 8.5	M22 A = 8.5
	F23 A = 13.5	M23 A = 13.5
<p>$D = 4 \begin{matrix} +0.03 \\ -0.05 \end{matrix}$</p> <p>6</p> <p>1.5</p> <p>1</p> <p>10 ± 0.5</p> <p>M7 x 0.75</p> <p>spindle in full CCW position</p> <p>225°</p>	F25	M25

Separate Concentric Spindle	Type
<p>$D2 = 6 \begin{matrix} +0.01 \\ -0.05 \end{matrix}$</p> <p>$D1 = 4 \begin{matrix} +0.01 \\ -0.05 \end{matrix}$</p> <p>6.5</p> <p>$L2 \pm 0.5$</p> <p>$L1 \pm 0.5$</p> <p>slot position undetermined</p> <p>2.5</p> <p>$L1 = 60 \text{ max}$ $L2 = 50 \text{ max}$</p>	M15 Metal

The orientation of the flat indicated in the drawings is for plastic spindles only. For metal spindles, unless specified in the order, the orientation of the flat may change in each potentiometer.

Available spindles are specified on the pages describing each potentiometer type.



Carbon Rotary Potentiometers - 16 mm size

Normalised plastic spindles

Standard types & lengths

Potentiometer types	D mm	Spindle types	Normalised lengths - mm									
			15	18	20	22	25	30	32	40	60	
(CI) P160C	4	F21 - F22-F23	15	18	20	22	25	30	32	40	60	
CI P161C	6	F31-F32-F33-F34-F35-F1-F6	⁽²⁾ 15	20	25	30						
P160BA	6	F1 - F3-F6	⁽¹⁾ 20	22	25	30	40	50				
(CI) JP16C	4	F21 - F22-F23	15	18	20	22	25	30	32	40	60	
	6	F31-F32-F33-F34-F35-F1-F6	⁽²⁾ 15	20	25	30						
(CI) PC160C IL/2IL EP160C IL/2IL P161EC IL/2IL	4	F21 - F22-F23	15	18	20	22	25	30	32	40	60	
	6	F31-F32-F33-F34-F35-F1-F6	⁽²⁾ 15	20	25	30						
P160 IBA	6	F1 - F3-F6	⁽¹⁾ 20	22	25	30	40	50				
(CI) P160KC	4	F21-F22-F23	15	18	20	22	25	30	40			
	6	F1 -F6	15	18	20	22	25	30	40	50	60	
EP160Z-EPP160Z	6	F1 -F6	21	26	29	31	33	36	41	51	61	
EP160KC EPP160KC P160EKC	6	F1 -F6	10	15	18	20	22	25	30	40	50	60
P160ZCS	4	F21-F22-F23	15	18	20	22	25	30	40			
	6	F1 -F6	15	18	20	22	25	30	40	50	60	
SP160Z	6	F1 -F6	21.5	24.5	26.5	28.5	31.5	36.5	46.5	50		
EP160KC IPP CI P160KC IPP	4	F21- F22 -F23	15	18.5	20.5	22	25	30	40			
CI P160KC IP (CI) JP160KC	4	F21-F22-F23	15	18	20	22	25	30	40			
	6	F1 -F6	15	18	20	22	25	30	40	50	60	
(CI) TJP160KC (CI) QJP160KC	6	F1 -F6	10	15	18	20	22	25	30	35	50	60
(CI) P160TZC	6	F1 -F6	16	19	21	23	26	31	41	50		

(1) F6 type only

(2) F31 and F33 types only

F22-F23 types: with flat in standard position

Normalised metal spindles

(CI) P160C	4	M21	13	15	17	20	25					
(CI) JP16C	4	M22 flat 90°	13	15	17							
(CI) P160KC	4	M22 flat 225°	13	15	17	20	25					
(CI) JP160KC	4	M23 flat 90°	18	20	22	25	30					
(CI) P160C IL/2IL	6	M31-M33	15	17								
(CI) P160KC IP	6	M32-M34-M35	20	22	25	30						