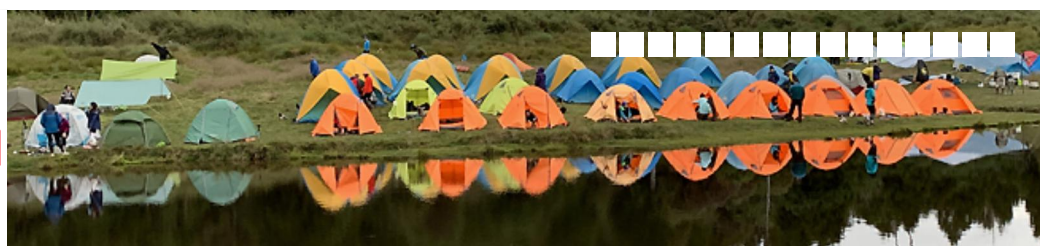




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ENCODER / ENCODER

R11/R12 Series 11mm/12mm Rotary Encoder With Switch or Without Switch

Compact and highly accurate contact type encoder
 Insulation shaft and metal shaft available
 Optional vertical or horizontal shaft type

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Feature

- Operating temperature: -10°C ~ +70°C
- Maximum operating current: 10mA
- Total rotational angle: 360°
- Detent torque: 30~100gf.cm
- Shaft push-pull strength: Push 5Kgf / Pull 3Kgf
- Number of detent: 20/30 in 11mm, 12/24 in 12mm
- Power rating: 0.05W
- Insulation Resistance: 100MΩ min. at DC 250V
- Withstand Voltage: AC 300V for 1 minute
- Operating life: 30,000 cycles
- Cold: -40±3°C for 240h
- Dry heat: 85±3°C for 240h
- Damp heat 60±2°C, 90~95%RH for 240h
- Switch travel: -/0.5/1.5
- Switch operating force: 300~600gf
- Switch rating: 5VDC 10mA (1mA min.)
- Switch contact resistance: 100mΩ
- Manual soldering: 300°C max. 3s max.
- Dip soldering: 260±1s
- Reflow soldering: Refer to soldering condition

Specification

How to order

R	11	1	EC	S	— 15F5
Rotary Encoder	SHAFT SIZE	DESIGN CODE	ENCODE SERIES	SWITCH	SHAFT TYPE
	11 11mm 12 12mm	Letter or number combination	EC	☐ No Switch ☒ Switch	See Chart

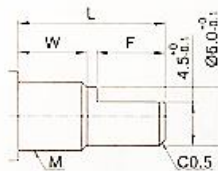
D1	— 20C	20P
PIN TYPE	NUMBER OF DETENT	PULSES
A1 Horizontal D1 Vertical	11mm type 20C 20 30C 30	11mm type 15P 15 20P 20
	12mm type 12C 12 24C 24	12mm type 12P 12 24P 24

Chart

11mm Rotary Encoder (Metal Shaft Type)

F-Type1 扁平軸1

Style (Shaft diameter : $\varnothing 6$, flat 4.5)
 形狀 (直徑: $\varnothing 6$, 平面4.5)

•M= $\varnothing 7$

X=L	W	F
10F4.5	4.5	4
10F5	5	4
15F5	5	7
20F7	7	12
25F7	7	12

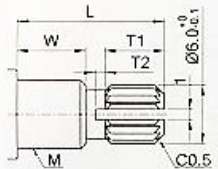
•M=M7x0.75

X=L	W	F
10F4	4	4
10F5	5	4
15F5	5	7
20F7	7	12
25F7	7	12

For switch and without switch. 適用於有開關和無開關產品。

KQ-Type 齒形軸

Style (Shaft diameter : $\varnothing 6.0$, 18 teeth)
 形狀 (直徑: $\varnothing 6$, 18齒)

•M= $\varnothing 7$

X=L	W	T1	T2
10KQ4.5	4.5	4	0.5
10KQ5	5	4	0.5
15KQ5	5	7	1
20KQ7	7	12	1
25KQ7	7	12	1

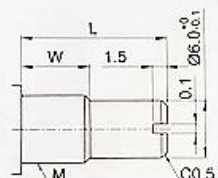
•M=M7x0.75

X=L	W	T1	T2
10KQ4	4	4	0.5
10KQ5	5	4	0.5
15KQ5	5	7	1
20KQ7	7	12	1
25KQ7	7	12	1

For switch and without switch. 適用於有開關和無開關產品。

S-Type 溝槽軸

Style (Shaft diameter : $\varnothing 6.0$, A word through)
 形狀 (直徑: $\varnothing 6.0$, 一字槽)

•M= $\varnothing 7$

X=L	W
10S4.5	4.5
10S5	5
15S5	5
20S7	7
25S7	7

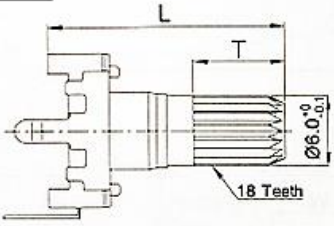
•M=M7x0.75

X=L	W
10S4	4
10S5	5
15S5	5
20S7	7
25S7	7

For switch and without switch. 適用於有開關和無開關產品。

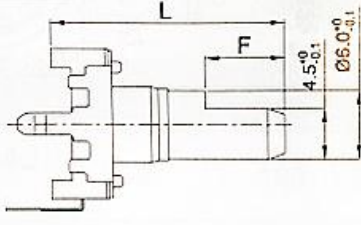
12mm Rotary Encoder (Insulation Shaft Without Switch)

T-TYPE



X	L	T
15.5KQ5	15.5	5
17.5KQ5	17.5	5
17.5KQ7	17.5	7
20KQ7	20	7
25KQ12	25	12

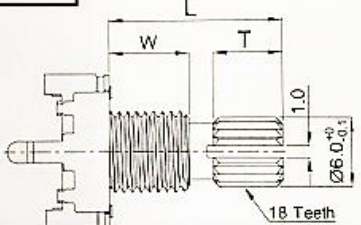
F-TYPE



X	L	F
15.5F5	15.5	5
17.5F7	17.5	7
20F7	20	7
22.5F12	22.5	12
25F12	25	12

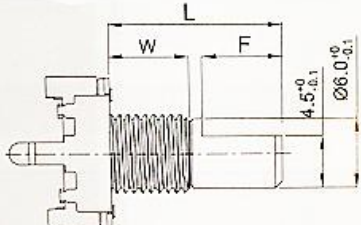
12mm Rotary Encoder (Metal Shaft Without Switch)

T-TYPE



X	L	W	T
10KQ5	10	5	3
15KQ5	15	5	5
20KQ7	20	7	7
25KQ7	25	7	12

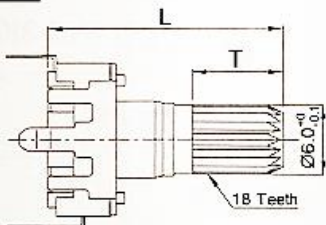
F-TYPE



X	L	W	F
10F5	10	5	3
15F5	15	5	5
20F7	20	7	10
25F7	25	7	12

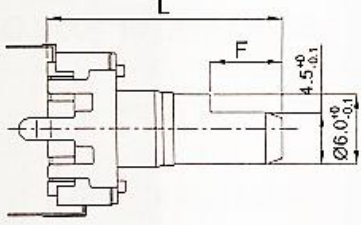
12mm Rotary Encoder (Insulation Shaft With Switch)

T-TYPE

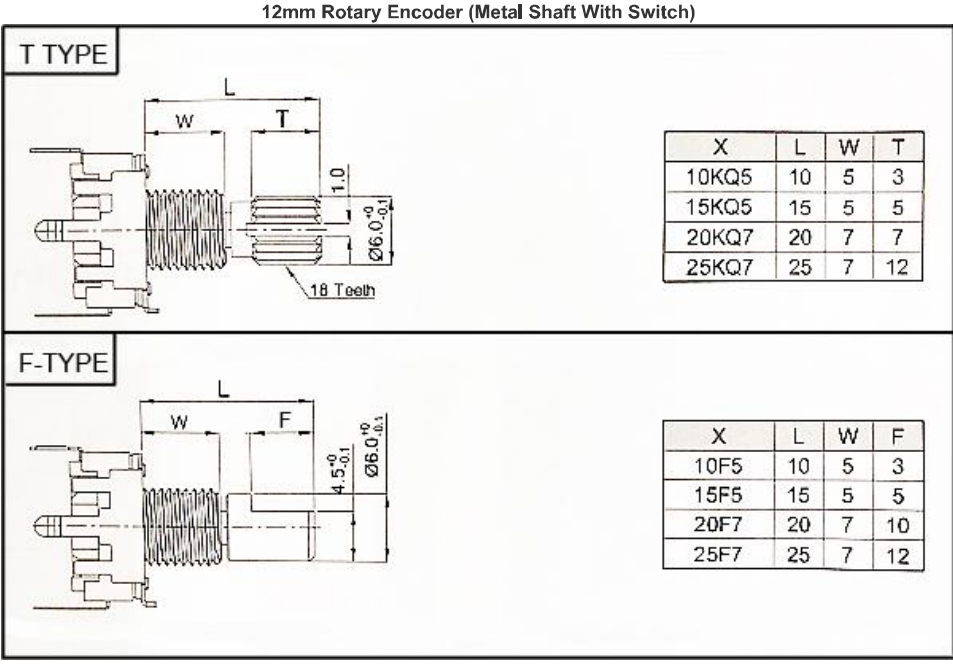


X	L	T
15.5KQ5	15.5	5
17.5KQ5	17.5	5
20KQ7	20	7
25KQ12	25	12

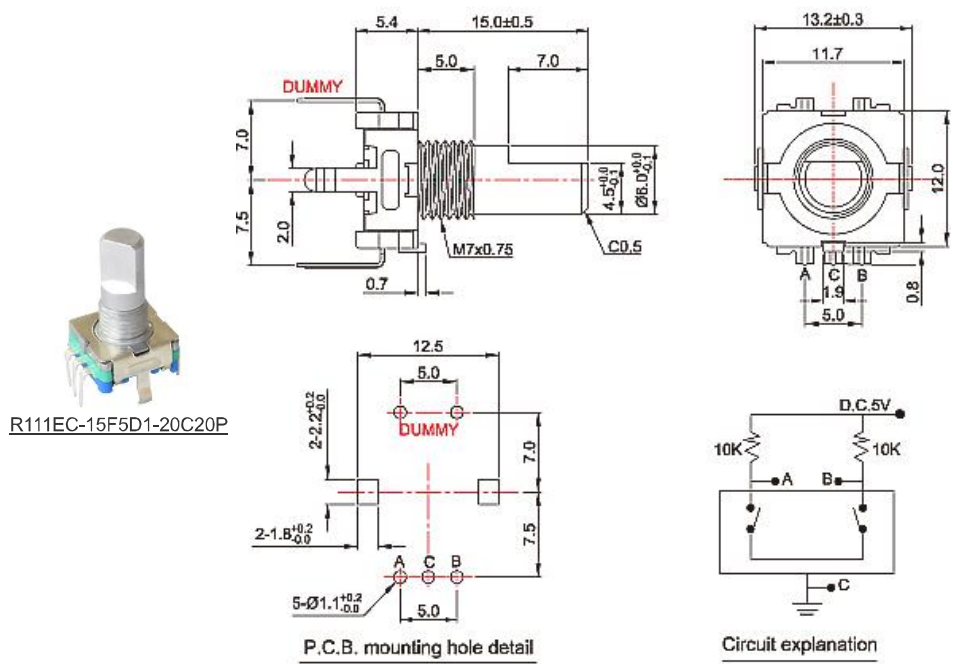
F-TYPE

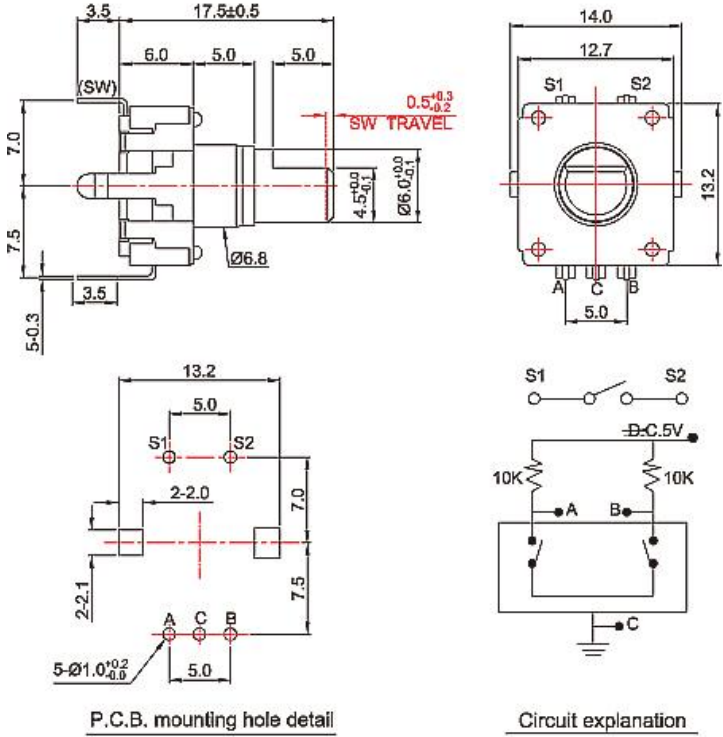


X	L	F
15.5F5	15.5	5
17.5F7	17.5	7
20 F7	20	7
22.5 F12	22.5	12
25 F12	25	12

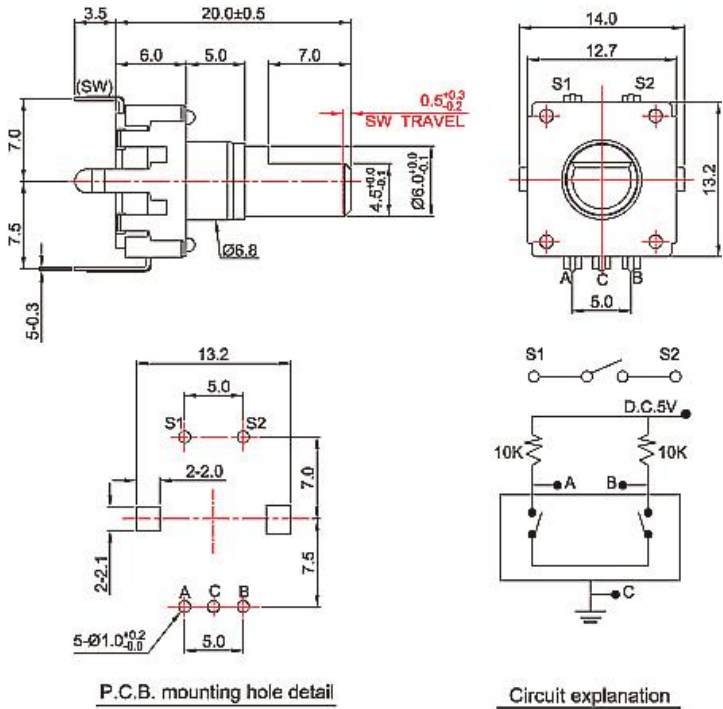


Item





R121ECS-20F7D1-
24C24P



BACK



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