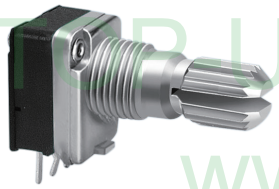
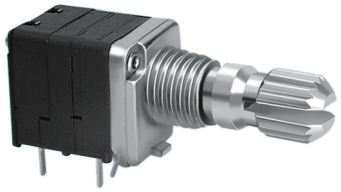
9mm Size Series Encoders

Metal Shaft Type

TOP-UP





▲FEATURE

- Very small, only 9.5mm wide.
- Contour is similar to 9mm size metal shaft rotary potentiometers.

▲APPLICATIONS

- Various controls for car audio equipment , AV equipment, communication equipment etc.

Common Specifications

Pulse	Number of detent	Phase difference (msec)	Chattering (msec)	Sliding noise (msec)	Insulation resistance	Dielectric strength	Detent torque (gf.cm)	Rotational life (cycle)
12	0	3	5	5	250VDC 100MΩ MIN	300V AC 1 min	30~200 (0 DETENT: 100gf.cm max.)	30,000
	12							
	24							
15	0	3	5	5				
	30							

Switch Specifications

Rating	Contact resistance	Insulation resistance	Dielectric strength	Contact arrangement	Travel of switch(mm)	Operating force(gf)	Operating life(cycle)
DC 5V 10 mA	100mΩ	250V DC 100MΩ MIN	300V AC 1 min	PUSH ON	0.5	300±200	20,000
					1.5	400±200	

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EC09M Series Code Explanation

EC09M	S	D	H	□	B	-	B	- 20	K	- 15	- 30C	- □□□
1	2	3	4	5	6		7	8	9	10	11	12

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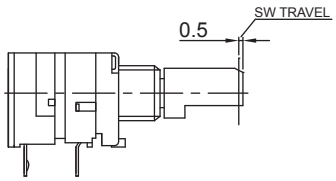
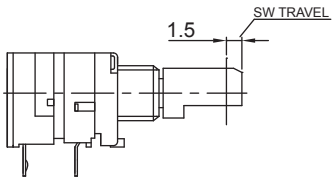
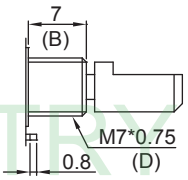
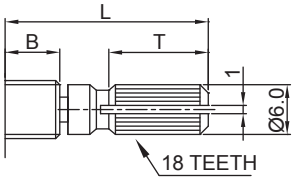
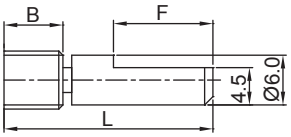
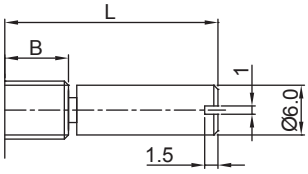
1. Product Lines of EC09M (9mm Metal Shaft Encoder)
2. Switch : S- With Switch; Blank- Without Switch
3. Swtich Travel

Code	D	E
Travel		

4. Horizontal Type - H
5. Bushing Length : Blank- 7mm (Standard Type)
6. Type of Bushing

(With Screw)				
B (Standard)				
Other type	B	5	7	10
	D	M7*0.75		

7. Type of Terminal : B - P.C.B Type
8. Shaft Length
9. Type of Shaft

K - Type							F - Type							S- Type						
																				
B: 5mm		B: 7mm		B: 10mm			B: 5mm		B: 7mm		B: 10mm			B: 5mm		B: 7mm		B: 10mm		
L	15	L	20	L	25	30	L	15	L	20	L	25	30	L	15	L	20	L	25	30
T	7	T	12	T	12	12	F	7	F	12	F	12	12							

10. Output Pulse : 15 - 15Pulse

Pulse No.	12 Pulses	12 Pulses	15 Pulses
Detent NO.	12C	24C	30C

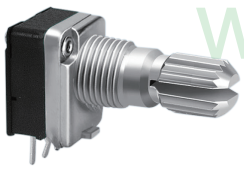
11. Number of Detent : Blank- None, 30C - 30 Detent
12. Series No.

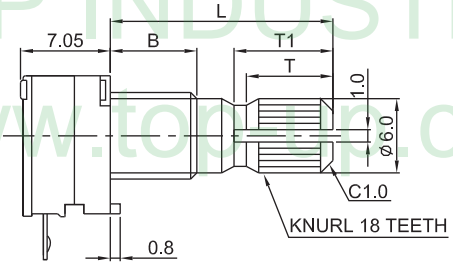
9mm Size Series Encoders

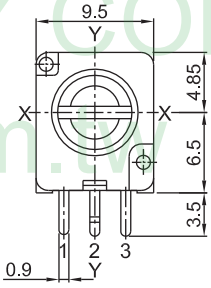
Metal Shaft Type

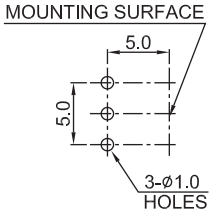
TOP-UP

EC09MHB-B
W/O Switch

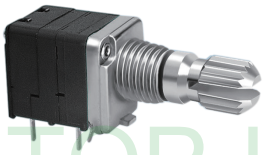


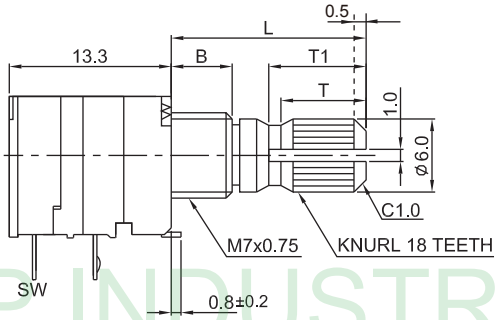


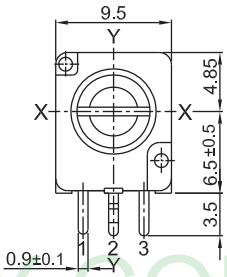


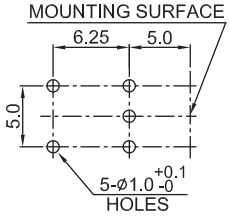


EC09MSDHB-B
W/Switch 0.5mm

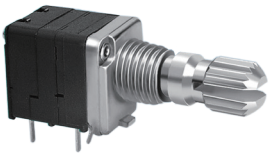


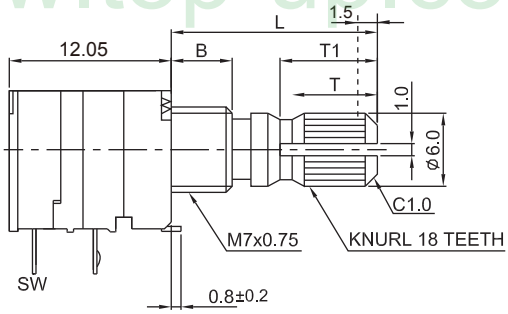


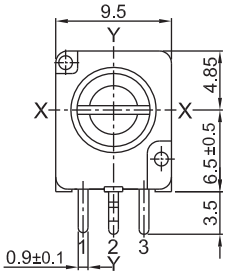


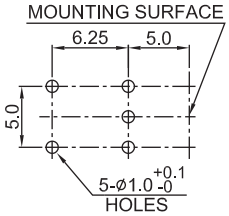


EC09MSEHB-B
W/Switch 1.5mm









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9mm Size Series Encoders

Metal Shaft Type

TOP-UP

Soldering condition

▲Manual Soldering
- Bit temperature of soldering : 350°C or less.
- Application time of soldering : within 3s.

▲Dip soldering

Preheating :
- Surface temperature of board : 100°C or less.
- Preheating time : within 2 min.

Soldering :
- Solder temperature : 260±5°C
- Immersion time : 5±1 sec.

*Apply the above soldering process for 1 or 2 times.

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www.top-up.com.tw
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