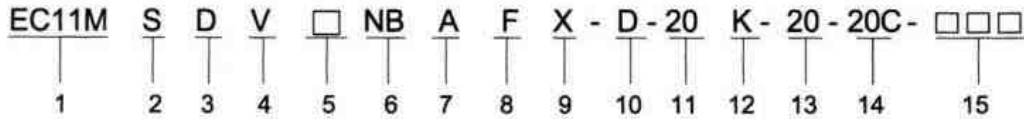
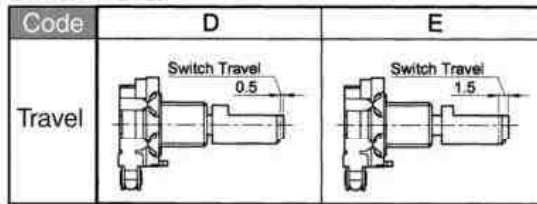


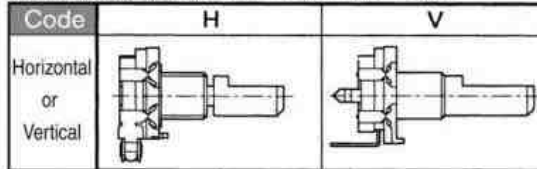
EC11M Series Code Explanation



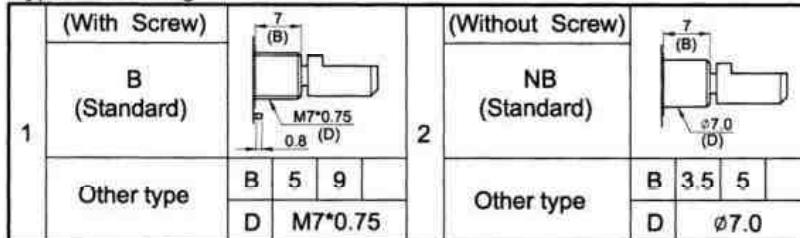
1. Product Lines of EC11M (11mm Metal Shaft Encoder)
2. Switch: S-With Switch, Blank-Without Switch
3. Switch Travel



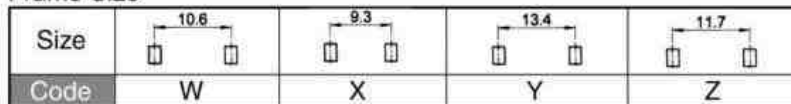
4. Horizontal(H) Type or Vertical(V) Type



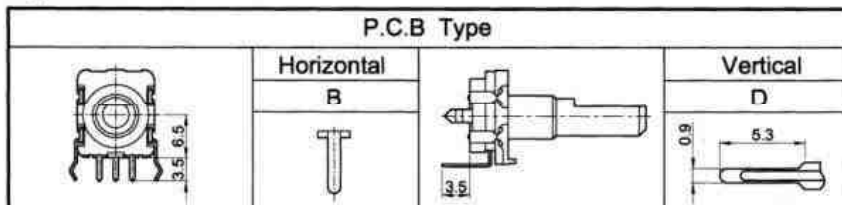
5. Bushing Length: Blank- 7mm (Standard Type)
6. Type of Bushing



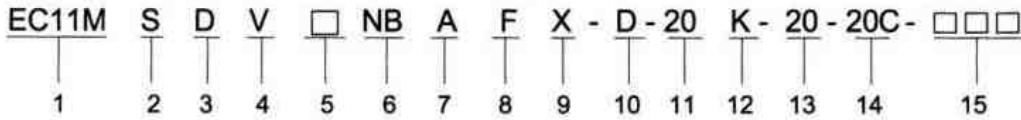
7. Bushing Material: Blank-Aluminum Alloy, A- Zinc Alloy
8. With Frame: "F"
9. Frame Size



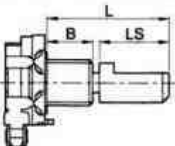
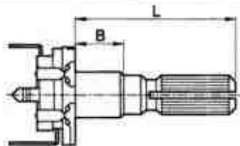
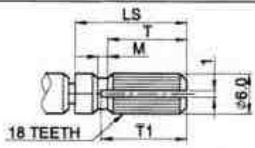
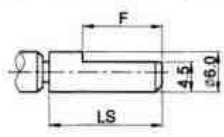
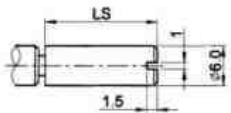
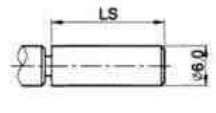
10. Type of Terminal



EC11M Series Code Explanation



- 11. Shaft Length (See Drawing 1)
- 12. Type of Shaft (See Drawing 1)

																			
K - Type										F - Type									
																			
B: 5mm					B: 7mm					B: 5mm					B: 7mm				
L	15	20	25	30	L	15	20	25	30	L	15	20	25	30	L	15	20	25	30
LS	9.65	14.65	19.65	24.65	LS	7.65	12.65	17.65	22.65	LS	9.65	14.65	19.65	24.65	LS	7.65	12.65	17.65	22.65
T	6	10	10	12	T	5	9	10	12	F	7	12	12	12	F	5	7	12	12
M	1	1	2	4	M	0.5	1	2	4										
T1	7	11	11	14	T1	5.5	10	11	14										
S - Type										R - Type									
																			
B: 5mm					B: 7mm					B: 5mm					B: 7mm				
L	15	20	25	30	L	15	20	25	30	L	15	20	25	30	L	15	20	25	30
LS	9.65	14.65	19.65	24.65	LS	7.65	12.65	17.65	22.65	LS	9.65	14.65	19.65	24.65	LS	7.65	12.65	17.65	22.65

(Drawing 1)

- 13. Output Pulse

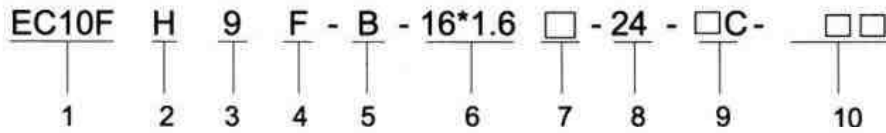
Code	15	20
Pulse No.	15 Pulses	20 Pulses

- 14. Number of Clicks: Blank- None, 16C-16 Position Click, 20C-20 Position Click, 30C-30 Position Click

- 15. Serial No.

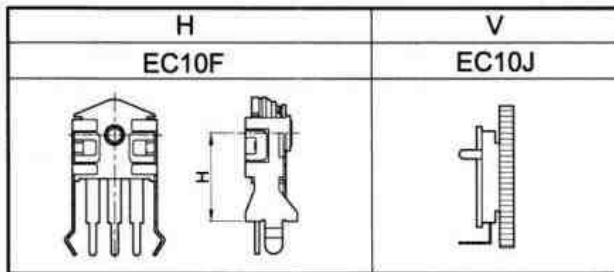
The drawing and specification are for reference only. For further detail, please contact Top-Up head office.

EC10 Series Code Explanation

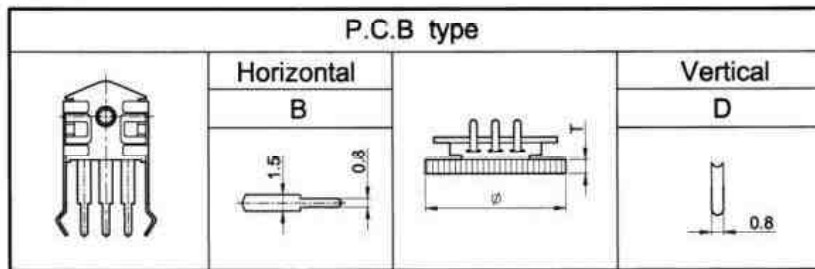


Remark:

1. Product Lines
 EC10F — 10mm Size Rotary Encoder
 EC10J — 10mm Size With Teeth Type Rotary Encoder
2. Horizontal (H) Type or Vertical (V) Type



3. Mounting Height(H) : 7mm, 9mm, 11mm, 13mm (only EC10F Series)
4. With Frame : "F"
5. Type Of Terminal



6. Shaft Diameter*Shaft Thickness(Only For EC10J Series)
7. Knob Angle (Only For EC10J Series)
8. Output Pulse

EC10F				EC10J		
Pules No.	Code	12	24	Pules No.	Code	12
	Pulse	12 Pulses	24 Pulses		Pulse	12 Pulses

9. Number of Clicks : Blank-None-24CC
10. Serial No.

Incremental Type:

Size	Model	Pulse/rotation	Number of Clicks	Rotatic dual angle	Mounting method	Others
11mm	EC11M	20/360°	20	360° (Endless)	Fastened with bushing unit /snap -in	With push -on switch (Model without switch also available)
		15/360°	30			
		16/360°	16			

Standard Dimensions of Shaft And Buashing:

Bushing	H Dimensions			B
	Without Switch	0.5 Switch	1.5 Switch	
∅7	5.0	6.2	7.15	3.5 or 7
M7x0.75	5.4	6.6	7.55	5 or 7

Mechanical Characteristics:

Total rotational angle	360°
Click torque	5~19mN.m (51~194gf.cm)
Push pull strength	80N (8kgf)

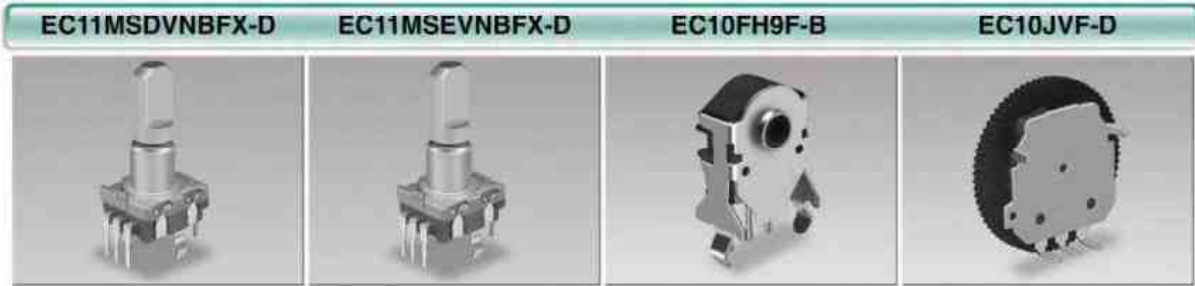
Electrical Characteristics:

Ratings	5V DC, 10mA
Withstand voltage	300V AC
Max. operating current	10mA
Insulation resistance	More than 100mΩ at DC 300V

Durability:

Rotational life	15,000 cycles
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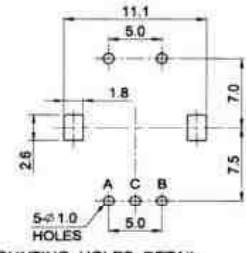
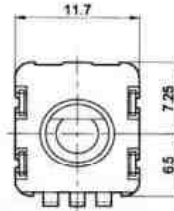
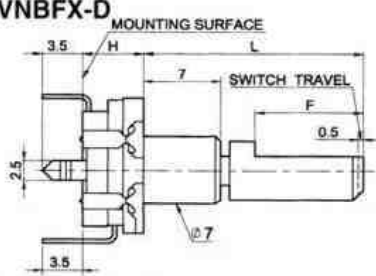
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Outline Drawing

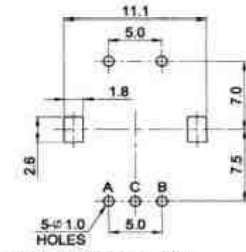
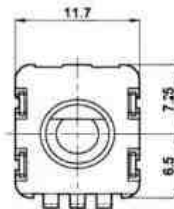
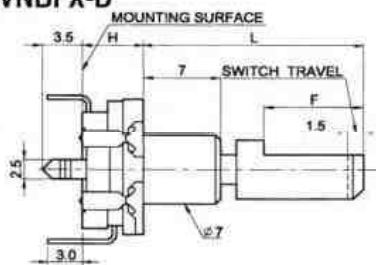
Features individual specifications

EC11MSDVNBFX-D



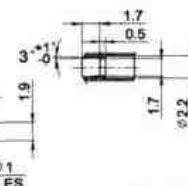
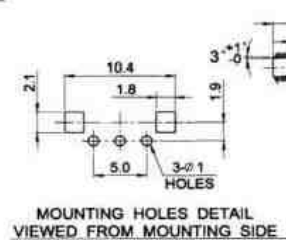
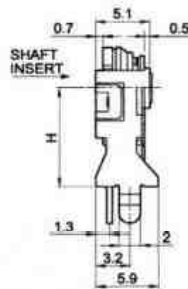
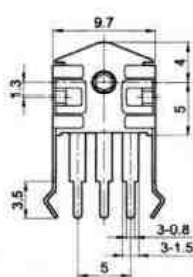
MOUNTING HOLES DETAIL VIEWED FROM MOUNTING SIDE

EC11MSEVNBFX-D



MOUNTING HOLES DETAIL VIEWED FROM MOUNTING SIDE

EC10FH9F-B

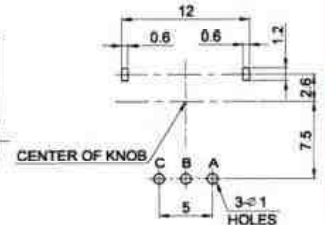
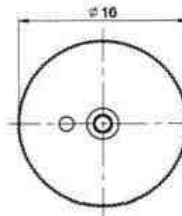
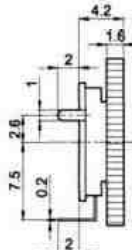
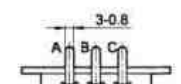
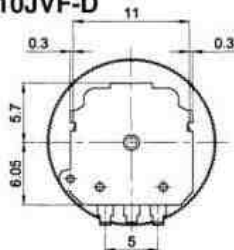


DETAIL(1:5:1)

MOUNTING HOLES DETAIL VIEWED FROM MOUNTING SIDE

H			
7	9	11	13

EC10JVF-D



MOUNTING HOLES DETAIL VIEWED FROM MOUNTING SIDE

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