

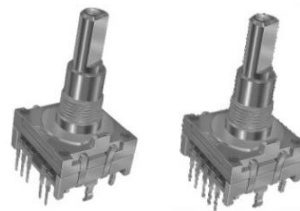
17mm Gray Rotary Encoder

Application

- ✓ Audio, Home appliance, Precision Apparatus, Communication, Industrial Control, etc.

Feature

- ✓ Absolute 4 bit Gray coding encoder



■Specification

Rating	12V DC 0.1A (10V DC 1mA for 16 Positions)
Operating Temperature	-40 °C~85 °C (-20 °C~60 °C for 16 Positions)
Rotational Torque	350±150 gf.cm (600±200 gf.cm for 16 Positions)
Rotational Life	6,15 positions: 10,000 cycles (rotate 360° ccw and rotate 360° cw as 1 cycle) 16 positions: 15,000 cycles (rotate 360° ccw and rotate 360° cw as 1 cycle)

■How to order

RE170F – 40E3 – 248F – 4G – 6

[Model](#)

[Resolution](#)

Code	Position Type
6	6-Position Gray Code
15	15-Position Gray Code
16	16-Position Gray Code

Output Signal :
4 bit Gray code

Terminal Type

Code	Terminal type	Switch
40	Vertical	Without switch

Code	Bushing Type (D)	
E3	∅9mm	7mm


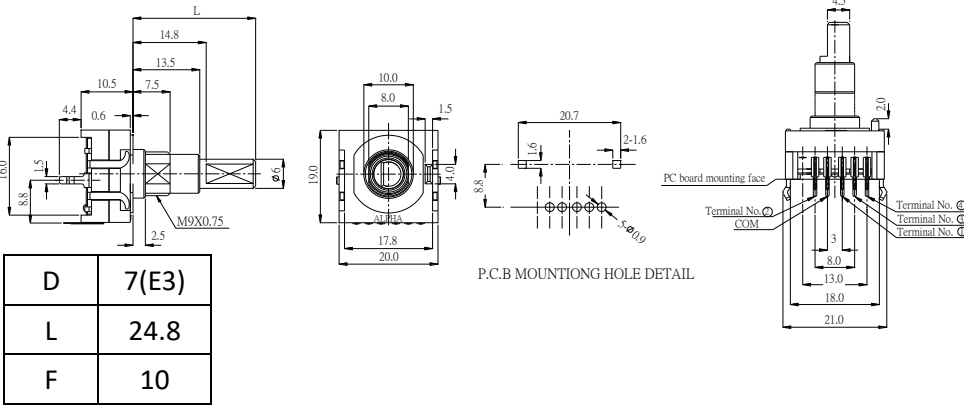

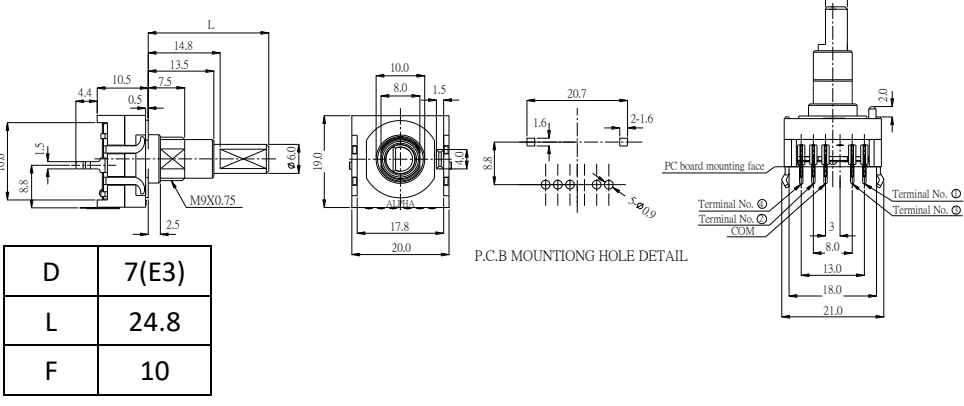
Shaft

17mm Gray Rotary Encoder

Model Description

Model	Terminal Type	Position Type	Rotation Angle	Bushing Thread
RE170F-40E3	Vertical	6-Position Gray Code	200±5°	With thread
	Vertical	15-Position Gray Code	179.2±5°	With thread
	Vertical	16-Position Gray Code	360° endless	With thread

MOQ: 10,000pcs for each specification/ Part number.

Order Code	Outline Drawing						
RE170F-40E3 (6-Position) 	 <table border="1" data-bbox="533 943 743 1093"> <tr> <td>D</td> <td>7(E3)</td> </tr> <tr> <td>L</td> <td>24.8</td> </tr> <tr> <td>F</td> <td>10</td> </tr> </table>	D	7(E3)	L	24.8	F	10
D	7(E3)						
L	24.8						
F	10						
RE170F-40E3 (15-Position & 16-Position) 	 <table border="1" data-bbox="533 1379 743 1529"> <tr> <td>D</td> <td>7(E3)</td> </tr> <tr> <td>L</td> <td>24.8</td> </tr> <tr> <td>F</td> <td>10</td> </tr> </table>	D	7(E3)	L	24.8	F	10
D	7(E3)						
L	24.8						
F	10						

Standard Codes

The ● mark shows the ON position

Code	Terminal	Number of Position															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Gray	1	●	●			●	●			●	●		●	●			
	2		●	●	●	●				●	●	●	●				
	3				●	●	●	●	●	●	●						
	4								●	●	●	●	●	●	●	●	

Design and specifications presented here are for the standard parts only. Please kindly contact us for your special requests and ask for the current technical specifications before purchase and/or use.

[Back to top](#)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Alpha \(Taiwan\):](#)

[RE170F-40E3-248F-4G-15-002](#)