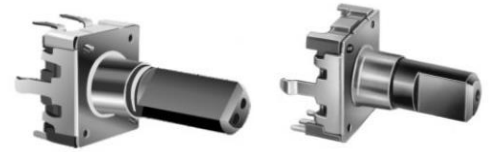


## 12mm Insulated Shaft Rotary Encoder

### Application

- ✓ Audio, Home appliance, Precision apparatus, Automotive, Communication, Industrial control, etc.



### Feature

- ✓ Incremental Output Signal Encoder

### ■ Specification

Rotation Angle	360° endless
Rating	5V DC 0.5mA
Operating Temperature	-10 °C~70 °C
Rotational Torque	30 ~ 150 gf.cm
Rotational Life	15,000 cycles (rotate 360° ccw and rotate 360° cw as 1 cycle)
Switch Circuit	S.P.S.T. (Push on)
Switch Stroke	0.5 mm
Switch Rating	5V DC 1mA
Switch Operating Force	200 ~ 460 gf.cm
Switch Operating Life	20,000 cycles

### ■ How to order

RE130F – 40 – 20F – 12P

[Model](#)

[Resolution](#)

Code	Model	Pulses	Detents
12P	RE130	12	12
24P	RE120	24	24

[Shaft](#)

#### Terminal Type

Code	Terminal type	Push Switch
40	Vertical	Without switch
41	Vertical	With switch


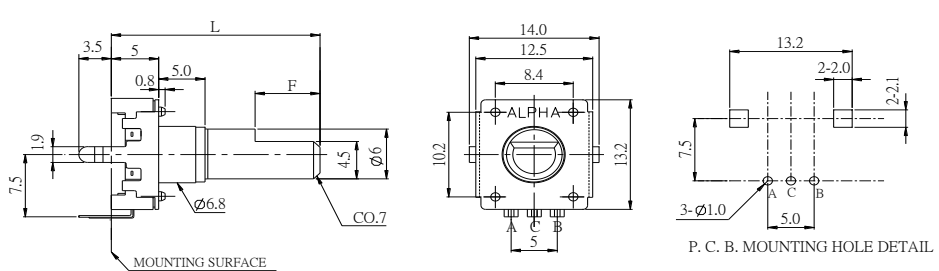

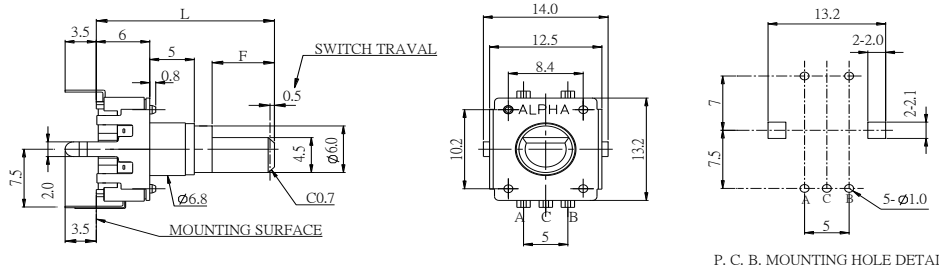

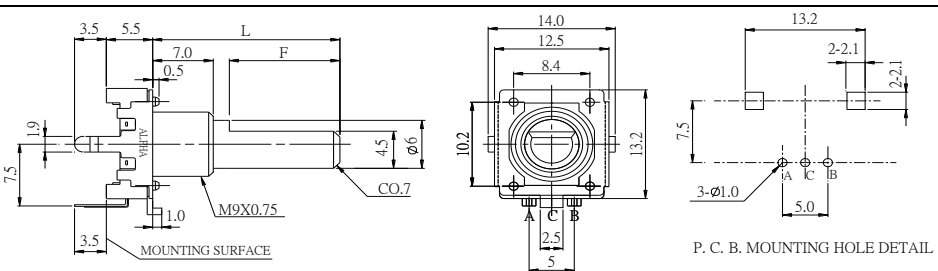
Code	Bushing Type (D)		Bushing Thread
None	∅6.8mm	5mm	Without thread
E3	∅9mm	7mm	With thread

E3 Just for Terminal code '40'

## 12mm Insulated Shaft Rotary Encoder

### Model Description

Model	Terminal Type	Push Switch	Bushing Type (D)		Bushing Thread
RE130F-40	Vertical	Without switch	Ø6.8mm	5mm	Without thread
RE120F-40	Vertical	Without switch	Ø6.8mm	5mm	Without thread
RE130F-41	Vertical	With switch	Ø6.8mm	5mm	Without thread
RE12CF-41	Vertical	With switch	Ø6.8mm	5mm	Without thread
RE130F-40E3	Vertical	Without switch	Ø9mm	7mm	With thread
RE120F-40E3	Vertical	Without switch	Ø9mm	7mm	With thread

Order Code	Outline Drawing																								
RE130F-40-(L)F-12P RE120F-40-(L)F-24P 	 <p>P. C. B. MOUNTING HOLE DETAIL</p> <table border="1"> <caption>RE130F</caption> <tr> <td>L</td> <td>20</td> <td>25</td> </tr> <tr> <td>F</td> <td>7</td> <td>12</td> </tr> </table> <table border="1"> <caption>RE120F</caption> <tr> <td>L</td> <td>20</td> <td>25</td> <td>30</td> </tr> <tr> <td>F</td> <td>7</td> <td>12</td> <td>12</td> </tr> </table>	L	20	25	F	7	12	L	20	25	30	F	7	12	12										
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F	7	12	12																						
RE130F-41-(L)F-12P RE12CF-41-(L)F-24P 	 <p>P. C. B. MOUNTING HOLE DETAIL</p> <table border="1"> <caption>RE130F</caption> <tr> <td>L</td> <td>17.5</td> <td>20</td> <td>22.5</td> <td>25</td> <td>30</td> </tr> <tr> <td>F</td> <td>5</td> <td>7</td> <td>7</td> <td>12</td> <td>12</td> </tr> </table> <table border="1"> <caption>RE12CF</caption> <tr> <td>L</td> <td>17.5</td> <td>20</td> <td>22.5</td> <td>25</td> <td>30</td> </tr> <tr> <td>F</td> <td>5</td> <td>7</td> <td>7</td> <td>12</td> <td>12</td> </tr> </table>	L	17.5	20	22.5	25	30	F	5	7	7	12	12	L	17.5	20	22.5	25	30	F	5	7	7	12	12
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